

STATE HEALTH SOCIETY, NRHM – HARYANA
Through

United Nations Office for Project Services, 11 Golf Links, New Delhi-110 003

INTERNATIONAL COMPETITIVE BIDDING
FOR THE
SUPPLY OF MEDICAL EQUIPMENTS

UNOPS IFB No. UNOPS-HAR-IPO-01-2009

Amendment –I, dated October 30, 2009

The following amendments are hereby made to the bid document for the supply of Medical Equipments for the Govt. hospitals of Haryana, with reference to above IFB:

Sl.No	Reference	For	Read
1.	Where ever appearing in the bid document		
	Sale Of Bids	LAST DATE AND TIME FOR SALE OF BID DOCUMENT: 1200 hrs on 06-11-2009	LAST DATE AND TIME FOR RECEIPT OF BID: 1200 hours on 16-11-2009
	Receipt Of Bids	LAST DATE AND TIME FOR RECEIPT OF BID : 1400 hrs on 06-11-2009	LAST DATE AND TIME FOR RECEIPT OF BID: 1400 hours on 16-11-2009
	Opening of Bids	TIME AND DATE OF OPENING OF BIDS: 1415 hrs. on 06-11-2009	TIME AND DATE OF OPENING OF BIDS: 1415 hours on 16-11-2009
2.	Bid Security		
	ITB 29.3	The Bid Security shall be issued by an internationally recognized bank; i.e. a bank that is certified by the central bank to operate as commercial bank in the country. The Bid Security shall be submitted in original and in favor of UNOPS (Reference: UNOPS-HAR-IPO-01-2009). The Bid Security shall be minimum 3% of the quoted value of the schedule and shall be in Indian rupees or in US Dollars.	The Bid Security shall be issued by an internationally recognized bank; i.e. a bank that is certified by the central bank to operate as commercial bank in the country. The Bid Security shall be submitted in original and in favor of UNOPS (Reference: UNOPS-HAR-IPO-01-2009). The bid security will be in Indian rupees or in US Dollars. The amount of bid security required is specified in the Schedule of Requirements as hereinafter amended. If the bidder is submitting bid for more than one Schedule, the amount of the Bid Security shall be sum of the bid security amounts for the respective Schedules.
3.	ITB 24 : Incidental Services		
	Add after Sub-clause (f) :		
	Also, the bidder will provide necessary particulars of the items/spares covered under the warranty.		

4.	<p>Section II. Technical Specifications</p> <p>The Technical Specifications are replaced by the following :</p> <p>See Annexure</p>
5.	<p>Section III. Schedule of Requirements</p> <p>The Schedule of Requirements is amended and replaced by the following:</p>

SCHEDULE OF REQUIREMENTS

SCHEDULE No.	PRODUCT DESCRIPTION	Quantity	Bid Security	
			In Indian Rupees	In USD
Cardiac Equipment				
1	Cardiac Monitor with defibrillator	20	210,000.00	4,550
Ear Nose Throat Equipment				
2	Operating Microscope (ENT)	11	396,000.00	8,550
EYE Equipment				
3	A Scan	9	67,500.00	1,500
4	a. Phaco Machine	15	900,000.00	19,400
	b. Operating Microscope	15		
5	Slit Lamp	13	195,000.00	5,000
Operation Theatre Equipment				
6	TURP Set	5	60,000.00	1,300
7	Surgical Laparoscope	8	840,000.00	18,100
8	Single Puncture Laparoscope	17	357,000.00	7,700
Laboratory Equipments				
9	Binocular Microscope	34	40,800.00	900
Others				
10	Emergency Resuscitation Kits	41	430,500.00	9,300
11	Open Chair Trolleys for Infants	19	85,500.00	1,850
12	Double Surface Phototherapy Unit for Paediatrics	19	39,900.00	900

Delivery Schedule (including installation, commissioning & training):

Delivery, installation, commissioning and maintenance training in respect of all Consignees within 60 days from the date of issue of the Notification of Award (also see Note below).

Note: For the training of medical/ para-medical personnel, wherever applicable, additional 5 days will be provided.

Terms of Delivery:

- i. For Goods from outside India; DDP Final consignee destination as per Consignee Distribution List given below.
- ii. For Goods from within India: Free delivery to consignee as per Consignee Distribution List given below.

Consignee Distribution List

Schedule No.	Description of item/ Equipment	Ambala (TC)	Fatehabad	Mewat	Jhajjar (TC, Bahadurgarh)	Jind	Karnal	Kaithal	Kurukshetra	Narnaul	Panipat (TC)	Palwal	Rewari (TC)	Sirsa	Yamuna Nagar (TC)	Total Qty
	Cardiac Equipment															
1	Cardiac Monitor with defibrillator	2	1	1	2	1	1	1	2	2	1	2	1	1	2	20
	Ear Nose Throat Equipment															
2	Operating Microscope (ENT)	1	0	0	1	1	1	1	0	1	1	1	1	1	1	11
	Eye Equipment															
3	A Scan	1	1	1	0	0	0	0	1	1	1	1	1	0	1	9
4	a. Phaco Machine	1	1	1	2	1	1	1	1	1	1	1	1	1	1	15
	b. Operating Microscope	1	1	1	2	1	1	1	1	1	1	1	1	1	1	15
5	Slit Lamp	1	1	1	2	0	1	0	1	1	1	1	1	1	1	13
	Operation Theatre Equipment															
6	TURP Set	1		0	0	1	1		1		0	0	1	0		5
7	Surgical Laparoscope	1	1	1	1	1	1	0	1	1	0	0	0	0	0	8
8	Single Puncture Laparoscope	2	1	1	1	1	1	1	2	1	1	2	1	1	1	17
	Laboratory Equipment															
9	Binocular Microscope	8	2	0	1	1	10	1	0	2	1	4	1	2	1	34
	Other Equipment															
10	Emergency Resuscitation Kits	5	2	3	1	0	1	4	2	2	1	6	8	4	2	41
11	Open Chair Trolleys for Infants	1	1	2	0	4	1	1	1	2	1	2	0	2	1	19
12	Double Surface Phototherapy Unit for Paediatrics	0	1	1	0	0	1	2	2	2	0	4	3	2	1	19

Contact Details of Consignees

Sr. No.	District	Name & Address of Consignee with Pin Code Number	Name and Designation of Contact Person	Mobile No	STD Code	Telephone Number	E Mail id
1	Ambala	Dr. O.P. Arya, Civil Hospital, Ambal Cantt	Dr. O.P. Arya, Civil Surgeon	09354197285/ 9215156170	171	2557473/2557560	dhs.csamb@hry.nic.in
2	Fatehabad	Dr. Dinesh Dhillon, Civil Hospital, Fatehabad	Dr. Dinesh Dhillon, Civil Surgeon	9215156173	1667	225899/225898	dhs.csftb@hry.nic.in
3	Jhajjar	Dr. RS Dalal, Civil Hospital, Jhajjar	Dr. RS Dalal, Civil Surgeon	9215156177	1251	254014	dhs.csjir@hry.nic.in
4	Jind	Dr. SK Aggarwal, Civil Hospital, Jind	Dr. SK Aggarwal, Civil Surgeon	9896874070/9 215156176	1681	269039	dhs.csind@hry.nic.in
5	Kaithal	Dr. Ram Pal Dhahiya, Civil Hospital, Kaithal	Dr. Ram Pal Dhahiya, Civil Surgeon	9999004576/9 215156179	1746	230262	dhs.csktl@hry.nic.in
6	Karnal	Dr.(Mrs) Naresh Saini, Civil Hospital, Karnal	Dr.(Mrs) Naresh Saini, Civil Surgeon	9215156178/9 355313318	184	2267696/2267907	dhs.csknl@hry.nic.in
7	Kurukshetra	Dr. Parveen Garg, Civil Hospital, Kurukshetra	Dr. Parveen Garg, Civil Surgeon	9416042844/9 215156180	1744	290344/291512	dhs.cskkr@hry.nic.in
8	Mewat	Dr. HS Randhawa, Civil Hospital, Mandikhera, Mewat	Dr. HS Randhawa, Civil Surgeon	9215156181/9 416437688	1268	273010	dhs.csmwt@hry.nic.in
9	Narnaul	Dr. Ravinder Mathur, Civil Hospital, Narnaul	Dr. Ravinder Mathur, Civil Surgeon	9215156182	1282	251237	dhs.csmhn@hry.nic.in
10	Panipat	Dr. SS Punia, Civil Hospital, Panipat	Dr. SS Punia, Civil Surgeon	9215156183	180	2630275/2648727	dhs.cspnp@hry.nic.in
11	Rewari	Dr. HR Yadav, Civil Hospital, Rewari	Dr. HR Yadav, Civil Surgeon	9215156186	1274	256769	dhs.csrwr@hry.nic.in
12	Sirsa	Dr. SK Sharma, Civil Hospital, Sirsa	Dr. SK Sharma, Civil Surgeon	9215156187	1666	240155	dhs.cssrs@hry.nic.in
13	Yamunanagar	Dr. JR Bansal, Civil Hospital, Yamuna Nagar	Dr. JR Bansal, Civil Surgeon	9812161272/9 215156172	1732	237811	dhs.csynr@hry.nic.in
14	Palwal	Dr. Aditya Chaudhary, Civil Hospital Palwal	Dr. Aditya Chaudhary, Civil Surgeon	9254255370/9 896020188	1275	242102/252102	cspalwal@gmail.com

All other terms and conditions of the bid document remain unaltered.

Amendment-I : [UNOPS-HAR-IPO-01-2009]

SECTION II : TECHNICAL SPECIFICATIONS

**TECHNICAL SPECIFICATIONS OF MEDICAL EQUIPMENTS
FOR HOSPITALS OF GOVT. OF HARYANA**

Schedule No. 1 : Cardiac Monitor with Defibrillator

1. Description of Function

Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.

2. Operational Requirements

- 2.1 Defibrillator should be Bi-Phasic, light weight and latest model.
- 2.2 Should monitor vital parameters and display them.
- 2.3 Should print the ECG on thermal recorders.
- 2.4 Should work on Manual and Automated external defibrillation (AED) mode. Manual selection of 200 J or more.
- 2.5 Should be capable of doing synchronized & asynchronized cardioversion.
- 2.6 Can be operated from mains as well as battery.
- 2.7 Should have defibrillator testing facility.
- 2.8 Demonstration of the equipment is a must.

3. Technical Specifications

- 3.1 Should be a Low Energy Biphasic defibrillator monitor with Recorder having capability to arrest all arrhythmia within a maximum energy of 200 J or more.
- 3.2 Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles. Should have Automatic Lead switching to see patient ECG through paddles or leads.
- 3.3 Should measure and compensate for chest impedance for a range of 25 to 150 ohms.
- 3.4 Should have a built in 50 mm strip printer/ thermal recorder.
- 3.5 Should have charging time of less than 10 seconds for maximum energy. Charging indicator should be there.
- 3.6 Should have electroluminescent/LCD display for viewing messages and ECG waveform of 4 seconds.
- 3.7 Should have external paddles with paddles contact indicator – for good paddle contact. Single Adult and pediatric paddles should be available.
- 3.8 Should have event summary facility for recording and printing at least 250 events and 50 waveforms.
- 3.9 Should have a battery capable of usage for at least 90 minutes or 30 discharges.
- 3.10 Should be capable of printing Reports on Event summary, configuration, self test, battery capacity etc.
- 3.11 Should have facility for self test/ check before usage and set up function.
- 3.12 Should have SPO₂ and NIBP integrated facility - Both functions are mandatory.
- 3.12 Should have user friendly 1,2, 3 color-coded operation.

4. System Configuration Accessories, spares and consumables

- 4.1 Defibrillator – 01
- 4.2 Paddles Adult/ Paediatric (pair) – 01
- 4.3 Patient cable – 02
- 4.4 ECG Rolls – 50
- 4.5 Disposable pads – 10 nos.
- 4.6 NIBP Cuff Adult – 02
NIBP Cuff Paediatrics – 02
- 4.7 Reusable SPO₂ Finger Probe – Adult – 02
Reusable SPO₂ Paediatric Finger Probe – 02
- 4.8 Complete set of ECG Leads – 02
- 4.9 Trolley with lockable, noiseless wheels.

5. Environmental factors

- 5.1 The unit shall be capable of operating continuously in ambient temperature of 10-40°C and relative humidity of 15-90%.
- 5.2 The unit shall be capable of being stored continuously in ambient temperature of 0-50°C and relative humidity of 15-90%.
- 5.3 Shall meet IEC-60601-1-2 : 2001 (or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

6. Power Supply

- 6.1 Power input to be 220-240 VAC, 50 Hz
- 6.2 Resettable overcurrent breaker shall be fitted for protection.

7. Standards, Safety and Training

- 7.1 Should be FDA or CE approved product.
- 7.2 Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms (or Equivalent BIS Standard).
- 7.3 Drop Test – Withstands 1 meter drop to any edge, corner or surface.
- 7.4 Should conform to international test protocols on exposure to shock forces and to vibration forces. The standard should be documented.
- 7.5 Should meet IEC 529 Level – 2 (IP2X) for enclosure protection solid foreign object ingress.
- 7.6 Should meet IEC 529 Level – 3 (IP3X) (spraying water) for enclosure protection, water ingress.
- 7.7 Should have local service facility. The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/ maintenance manual.
- 7.8 Comprehensive warranty for 5 years and provision of AMC for next 5 years.

8. Documentation

- 8.1 User Manual in English.
- 8.2 Service manual in English.
- 8.3 List of important spare parts and accessories with their part number and costing.

- 8.4 Certificate of calibration and inspection from factory.
- 8.5 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
- 8.6 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/ technical manual.
- 8.7 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/ para number of original catalogue / data sheet. Any point, if not substantiated with authenticated catalogue/ manual, will not be considered.
- 8.8 Must submit user list and performance report within last 5 years from major hospitals.

Schedule No. 2 : Surgical Operating Microscope for ENT with standard accessories

- | | | | |
|-----|-------------------|---|--|
| 1. | Magnification | : | Zoom 6.1 motorized. |
| 2. | Working length | : | 200 mm to 470 mm variable through motorized multifocal lens : manually adjustable. |
| 3. | Focusing | : | Motorized or manual via multifocal lens, manual via swing arm. |
| 4. | Eyepieces | : | Wide-field eyepiece for spectacle wearers 10 x 21 B. Dioptric setting +/- 5 with adjustable eye cup. |
| 5. | Main Illumination | : | High performance 300 watt xenon lamp through fiber optic. |
| 6. | Illumination | : | Illumination field diameter with white light distribution. |
| 7. | Field diameter | : | Automatically adjusted to the field of vision and manually adjustable. |
| 8. | Emergency lamp | : | 15-21 V/150 watt. Halogen lamp through fiber optic. Automatic changeover of the lamp in failure. |
| 9. | Control Unit | : | Graphical LCD display with background lighting, menu with up to eight user defined setting, with integrated self diagnostic system, Hospital & pt data, scale projection Video system. |
| 10. | Binocular tube | : | Variable angle of observation with adjustable 30 deg. – 150 deg. 0 deg.-180 deg. Straight or angled binocular tubes for main assistant surgeon. |
| 11. | Beamsplitter | : | 50% / 50%. |
| 12. | Magnification | : | 1.2 x 12.8 x with 10 x eye piece. |
| 13. | Field of View | : | 16.5 mm – 180 mm with 10 x eye piece. |
| 14. | Hand grip | : | Control for microscope zoon adjustments, controls for variable working distance via multifocal lens. |
| 15. | Foot switch | : | Zoom, working distance, focus light illumination. |
| 16. | Camera | : | Should be 3 chip CCTV with C-mount, powercable, sony cable for CCU/ Camera/ recording system with adaptors and attachment with existing Monitor, Laptop. |

17. Bulb : Halogen Bulb (150 W) extra (10 nos)
18. Fiberoptic cable : One cable extra for Microscope.
19.
19. All cables should be integrated in the stand for protection.

Schedule No. 3 : A-SCAN

Specifications

- A-Scan probe with 10+10% MHZ frequency.
- Power supply 220 V⁺- 10%, 50 HZ.
- Minimum four IOL calculation formulas
- Incorporated menu driven facilities
- {Probe should be small (3mm), soft/solid & should incorporate internal fixation light
- Should have memory of atleast 5 scans.
- Should have printer
- Should have option for manual and automatic operation
- Audible Guidance to axial alignment
- Weight less than 5 Kg and should be portable.

Measurement Parameters:

- Patient measurement accuracy⁺-10% 0.02mm
- Clinical accuracy⁺- 0.1mm
- Measurement limits – range to 38 mm

Model	:	CE Mark (or) FDA approved
Accessories	:	Dust cover one
	:	Printing Paper one dozen
	:	Probe Case
	:	Extra Fuses 10
	:	Hydraulic
Warranty	:	Two years after satisfactory installation.

Instruction booklet: User manual should be provided.

Maintenance support:

Bidder should state the arrangements that exist to provide post warranty period support for maintenance of the instrument that will be located in the various District Hospital/ medical colleges of the mentioned in scheduled of requirements/ list of consignees. The Bidder should guarantee availability of spare parts & technical knowhow for maintenance services with in India/ State for at least 5 years after the expiry of warranty period and should indicates the complete address of the place(s) where such services are available and number of technical personnel engaged for this purpose.

Approval of the equipment subject to Demonstration:

- CMC for period of 5 years after warranty period.
- Proof of installation in Government/ reputed private Institutions.
- Bank guarantee as per GFR rules.
- Rates of 5 years CMC after warranty period must be mentioned in the bid.
- List of commonly used serviceable/ consumables spares and their cost should be provided
- The specifications are generalized in nature and does not favour any particular Brand or Company.

Schedule No. 4

(a) Phaco Machine

Phaco Emulsification

Equipments, material and workmanship that meet the authoritative standards and which ensure at least substantially equal quality than the standards mentioned below will also be acceptable.

Specifications:

Electrical

Main Voltage: 110VAC+/- 10% @ 3.0 Amp max; 40/60 Hz & 220 VAC +/- 10% @ 1.5 Amp max; 40/60 Hz

Dlathermy

Type : Bipolar
Output Power : 12 Watt max
Hand piece : Bipolar micro forceps, pencil eraser (electrode for wet field coagulation)
Controls : Select the R.F. level desired (0 to 99%) on the front panel.
Output : On/ Off via foot switch

I/A

Vaccum Range : 0 to 600 mmHg
Flow rate range : 0 to 40 cc/min
Irrigation flow : Regulated by the height of the irrigation source (gravity fed)
Panel Mode : Linear control of the vacuum level via footswitch.

Vitrectomy

Handpiece Type (IPC): 30 psi, semi-disposable or re-usable pneumatic powered guillotine cutter (Minimum two piece
Cutting Rage :Minimum 50 to 500 cut per minute.
Port size :Adjustable port size from 0.2 to 0.7 mm
Actuating System :Built in internal compressor/external compressor.

Panel Mode :Select the maximum cutting range from 50 to 500 cuts minimum per minute
Surgeon Model :Linear aspiration flow via footswitch.

Phaco Emulsification

Hand piece Type : Peizokinetic (autoclavable) (4-6 crystals) 2 Hand piece.
Frequency : Approximatiely 40/42 KHz.
Pulse Mode : From 1 to 90 pulses per minute.
Stroke : Approximatiely 100 µm (4 mils)
Panel Mode : the maximum U/S power desired can be preset.
Surgeon Mode : Linear control of U/S power via footswitch.
Footswitch Position : 1. Irrigation, 2. Irrigation/ Aspiration, 3. Irrigation/ Aspiration, Phaco

IRRIGATION

Fluid Flow : Regulated by the height of the irrigation source (gravity fed)

INSPIRATION PUMP

Type : Peristaltic pump
Tips : 0⁰, 15⁰, 30⁰, 45⁰ one each

REFLUX

Continuous Flow : Reflux from the irrigation source according to the bottle height.

VENT

Type : Sterile fluid vent. Vent from the irrigation bottle should have a duration of 0.3 seconds.

TUBING

Type : Sillico ne reusable tubing (autoclavable) – 2 sets (high vac.) con collapsible.

AQOUSTIC SOUND

Vacuum Tone : Audible proportional tone that changes according to the vacuum value.
Diathermy Tone : A pulse beep/tone that confirms the irrigation.
Reflux tone : A continuous beep tone that confirms the reflux action.
Vent Tone : A shot beep that confirms the venting action.

FOOT SWITCH

Type : 3 Switches; mode select, reflux and irrigation. Linear Control

FRONT PANEL

Display : Alfa, Numerical LCD/LED display of the selected functions, bargraphs, and indicators.
Controls : Touch controls knobs to preset the vacuum level, flow rate, cutting rate, and RR Power
Attachments : Piesokinetic handpiece diathermy forceps, and vitrectomy handpiece

BLACK PANEL

Display : AC power switch (110/220 VAC), main power socket, footswitch connector, volume knob and earth connection (screw).

Spares (cost if quoted separately would be added to the bid price for evaluation and comparison purpose)

1. sleeves – 5
2. Extra set of Tubing
3. Disposal bags – 10

Accessories/ Facilities : essential (cost if quoted separately would be added to the bid price for evaluation and comparison purpose)

Marking : Should have engraved printing marking.
: manufacture serial No and Date of Manufacture should be legibly mark.

Packing and Packaging:

- Equipment and detachable component shall be pack in a permanent box as in suitable grooves with the same configuration so as to hold them intact without any movement or play to void any damage during any transit.
- Should be packed in the separate boxes with the suitable packing cushioning.

Instruction Booklet:

- Should be provided with the instruction booklet with in the description of the instruments and its functions and instructions fir use and maintenance for instruments.
- Service manual to be provided to the each equipment.

Quality requirements:

The manufacture should describe fully operational, quality plan in the bid. In addition each instrument shall be tested by the manufactured after completion and prior to packing, for all movement, adjustment and accuracy. Copies of such certificates for each test with reading recording obtain shall accompany each equipments. This is over and above purchaser/ third part inspections that may be stipulated in the contract.

Maintenance Support:

Bidder should state the arrangements that exist to provide post warranty period sport for maintenance of the instruments that will be located in the various District Hospitals/ Medical Colleges in the state mentioned in the Schedule of the requirement list of the consignees. The Bidder should guaranteed availability of Spare parts and Technical knowhow for maintenance services within India after the expiry of warranty period and should indicate the places where which services are available and number of technical persons engaged for this purpose alongwith addresses and telephone numbers.

Guarantee: One Year

Warranty : Two Years

Minimum life of the Equipment : 10 years

After- sales services arrangement (locally available) along with submission of schedule of the services and name of the agency providing the services should be provided.

Approval of the equipment subject to Demonstration.

AMC for period of 10 Years

- Proof in installation in Government / reputed Private Institutions.
- Bank guarantee for completion of AMC for 10 years (1%) of the total cost of the equipment)

(b) : Operating Microscope

Specifications:

Type : Galileo type, Inclined 45 degree Binocular tube
Magnification : Continuous or steps Zoom from 5x to 20x and Dioptic adjustment +5.0D to 5.0 D
Focussing : Motorized fine focusing with foot control.
Eye piece : 10-12.5x
Objective : f=175mm +/- 25 mm, 50HZ
IPD range : 55 to 75 mm
Power supply : AC 220 V +/-10%, 50HZ
Illumination : Col fibre optic illumination with lamp housing 2 bulbs with change over facilities, 12-15 volts, 100-150 watt bulb, illumination variation facilities. Illumination controlled with continuous adjustment.

Filter : Filter switchable facility for occluding papillary light.
Stand : Original floor stand.
Model : CE Mark/ FDA Approved.
Attachment facilities : Binocular assistant microscope.
Spares : Dust Cover – One
: Spare Bulb & fuse – Ten each
: CVT of adequate rating
: Serviceable and detachable caps for knobs (2 sets)
Warranty : Two years after satisfactory installation.
Instruction booklet: User manual should be provided.

Maintenance Support.

Bidder should state the arrangements that exist to provide post warranty period support for maintenance of the instruments that will be located in the various District Hospitals/ Medical Colleges in the state mentioned in the Schedule of the requirement list of the consignees. The

Bidder should guaranteed availability of Spare parts and Technical knowhow for maintenance

services within India/ State for atleast 5 years after the expiry of warranty period and should indicate the places where which services are available and number of technical persons engaged for this purpose. Approval of the equipment subject to Demonstration.

CMC for period of 5 Years

- Proof in installation in Government / reputed Private Institutions.
- Bank guarantee as per GFR rules.
- Rates of 5 years CMC after warranty period must be mentioned in the bid.
- List of commonly used serviceable/ consumables spares and their cost should be provided.

Schedule No. 5 : Slit Lamp

Specifications:

Type : Minocular Bio-Microscope (HAAG STREIT TYPE)
Magnification: Step/ continous from 6x to 30x
Eye piece : 10x to 12.5 X
Objective : Paired 1X and 1.6X
IPD range : 55 to 75 mm
Illumination : 6-12 volts, 20-50 watt bulb, halogen lamp/ tungston lamp illumination variation facilites, AC power supply 220V to +/-10%, 50 Hz

Slit Illumination:

Slit Width : Continuous 0 to 8mm
Slit Length : Continuous 1 to 8 mm
Filters : Red free, grey (neutral density), cobalt blue
Angle of slit rotation : 180⁰

Movement of Slit Lamp Assembly:

Longitudinal : 80 to 90 mm
Lateral : 100 to 110 mm
Vertical : 29 to 30 mm
Chin rest : Vertical -60 to 80 mm
Table : original motorized table
Model : CE Mark

Provision for attachment of facilities for: Applanation Tonometer:

Accessories/ Spares : Applanaton Tonometer – One
: Dust Cover – One
: Spares Bulbs – Ten
: Chin rest paper- 2 pack
: Extra fuses – 10

Warranty : Two years after satisfactory installation.

Instruction booklet: User manual should be provided.

Maintenance support:

Bidder should state the arrangements that exist to provide post warranty period support for maintenance of the instrument that will be located in the various District Hospital/ medical colleges of the mentioned in scheduled of requirements/ list of consignees. The Bidder should guarantee availability of spare parts & technical knowhow for maintenance services with in India/ State for at least 5 years after the expiry of warranty period and should indicates the complete address of the place(s) where such services are available and number of technical personnel engaged for this purpose.

Approval of the equipment subject to Demonstration:

CMC for period of 5 Years

- Proof in installation in Government / reputed Private Institutions.
- Bank guarantee as per GFR rules.
- Rates of 5 years CMC after warranty period must be mentioned in the bid.
- List of commonly used serviceable/ consumables spares and their cost should be provided.

Schedule No. 6 : Cystoscope TURP

- CYSTOSCOPE, should be wide angled, Direction 30°, dia 4mm, Area of viewing 90°, Autoclavable.
- CYSTOSCOPE SHEATH, should be 21Fr with two fixed stop cocks including Standard Obturator.
- ADAPTOR bridge with one instrument channels.
- Continuous Flow Outer Sheath should be 26 FR. Rotatable with one stop cock consisting of inner sheath 24FR with one stop cock including Standard Obturator.
- Working Element should be passive cutting assisted by spring electrode in resting position, for use with all resectoscope sheaths.
- Should be with HF Cord
- Should be with Ball Electrode
- Should be with Loop Electrode

- Should be with Flexible Biopsy forcep, Size - 7 Fr Length 400mm
- Should be with Flexible Grasping forcep, Size - 7 fr. Length - 400mm
- Should be with Adaptor for Ellic Evacuator
- Should be with Ellic Evacuator (Microvasive)
- Halogen light source 150 watts, twin lamp, fibreoptic cable 3.5 mm size and 230 cm long.
- 21 FR Urethrotome sheath with cold knife.
- Cutting loop 24FR-12 Nos. and Cold knife straight 6 Nos.
- Formalin chamber and sterilization trays of appropriate size.
- Kit for cleaning (Trocar brush – 4, cannula brush – 4, cleaning oil – 100 ml (4 bottles).
- Offline UPS with ½ hrs backup.

Schedule No. 7 : Operating Laparoscopy Set

(a) Laparoscopy TROLLEY

- Mobile unit tower with 5 adjustable unit shelves, 1 drawer, 1 Compartment for unit connection cable, 1 cable channel, 1 winding bracket, 8 power sockets, 1 isolating transformer and power cable, 240V, 50Hz.
- Camera head holder.
- Device connecting cable, 150 cm long
- Device connecting cable, 250 cm long
- Universal CO₂ bottle holder.
- UPS should be mounted on trolley.

Operating Laparoscopy System:

Specifications for High Definition Laparoscopy System

High Definition Three Chip Camera System

1. Camera console 220 v with universal coupler & Autoclavable camera head
2. Pure Digital signal with high definition video(1920*1080 P native resolution) with aspect ratio 16:9 with DVI and DV and SDI output.

3. Integrated Flexible Scope filter
4. Progressive scan technology
5. Brightness Control
6. Aperture Control
7. Automatic digital Image Enhancer
8. Digital zoom & white balance
9. Integrated Gain/shutter/Enhancement with brightness control
10. Two peripheral control on camera head

Video Output

1. 2 DVI output
2. 2 SVHS & 1 RGB out put
3. One Composite out put

Automatic Light source

1. 220 V, 300 W. Xenon Bulb(with one spare bulb)
2. Bulb Working life more than 400 hrs
3. Bulb life counter on light source
4. Automatic /Manual Light Adjustment
5. Stand By Mode
6. Universal Jaw Assembly to adapt any make of fiber optic cable without adapter.

Fiber optic Cable

4.8mm to 6.5mm (approx.) 7.5 feet (approx.) long Snap Fit cable

Monitor

24" High Definition monitor, resolution 1920 X 1080 with DBI input, option for wall mounting and desktop in same unit.

CO₂ Insufflator

20 Litre of high flow

Microprocessor controlled unit

Soft Approach Pressure control for safe recovery of abdominal pressure

LED/LCD based central display monitor

Audio visual Alarm

Laparoscopes, Fully Autoclavable with working length 300mm

Wide angled distortion free view

Universal adaptor for other light sources

Yellow Glass index for optimum evenness of focus & contrast

0 degree, 10mm x 1

30 degree, 10 mm x 1

0 degree, 5mm x 1

Instrument Set:

Laparoscopic hand instruments (reusable) with 310mm working length, take – apart locking / unlocking mechanism, rotatable with interchangeable handle with monopolar diathermy attachment (Except trocars and veress needle)

Veress needle 12 cm length 4

Veress needle 15 cm length 4

Carbon-di-oxide gas tubing 4

Trocars sleeves 11 mm 4

Reducer 11/5 mm 2

Trocars sleeves 5.5 mm 4

Trocars (pyramidal tip) 10 mm 4

Trocars (pyramidal tip) 5 mm 4

Trocars washer 5 mm 100

Trocars washer 10 mm 50

Laparoscopic biopsy forceps 5 mm, 2

Maryland dissector 5mm with unipolar diathermy 2

Atraumatic graspers, 5mm 2

Metzenbaum scissors (5cm) with unipolar diathermy 2

Fan retractors 5 mm 2

Laparoscopic cautery lead 4

Suction irrigation device with two way valve 2

L shaped hook electrode 5mm 2

Laparoscopic bowel grasper 5mm, length 33-36 cm 2

Laparoscopic spoon forceps 10mm length 33- 36 cm 2

Needle holder 5mm, 33 cm long 4

Laparoscopic suction cannula, 10 mm 2

Laparoscopic suction cannula 5 mm 2

Clip applicator 10 mm Large, Medium,

Claw forceps 10 mm – 2 nos.

Carbon Dioxide cylinders, 5 Kg each (3 in numbers)

Off line UPS, 2.2 KVA with one hr. backup.

Trocar brush (4), cannula brush (4), cleaning oil (100 ml) – 4 bottles for cleaning of instruments.

Formalin chamber of appropriate size for instruments.

Compact combined suction and irrigation device.

Schedule No. 8 : Single Puncture Laparoscope with CO₂ Insufflators & Cold Light

A. Single Puncture Laparoscope

<p>Telescope Specifications:</p> <p>Telescope 0 degree with parallel/straight eye piece, 10 to 12 mm diameter Fibre optic light transmission incorporated; should be compatible with the commonly available light cables (necessary adaptors should be provided) Can be sterilized by autoclaving, cidex solutions and Formalin Chamber. Should have 6 mm instrument channel/built-in ring applicator Working length of 270-275 mm</p>
<p>Trocar & Cannula:</p> <p>Cannula size + 1 mm more than the telescope diameter; should have an automatic valve and stopcock for insufflations. Trocar should have pyramidal tip.The length of the Trocar should be 160-170 mm and the length of the canula should be 100-110 mm</p>
<p>Ring Applicator:</p> <p>Ring applicator for use with parallel/straight eyepiece telescope compatible with the above telescope, capable of loading two silastic rings.</p>
<p>Cones: Suitable cones for loading rings to the above applicator</p>
<p>Slide/guide: Suitable slides/guide for loading rings to the above applicator</p>
<p>Veress Needle: Veress Needle with spring loaded blunt stylet with luer lock and length of 10 cm</p>
<p>Veress Needle: Veress Needle with spring loaded blunt stylet with luer lock and length of 15 cm</p>
<p>Essential Spares:</p> <p>i) Spare Washer: Spare washers for trocar and cannula and automatic valve ii) Kits for cleaning: i) Trocar Brush(ii) Cannula Brush(iii) Cleaning Oil 100 ml</p>

System Configuration Accessories, spares and consumables

System Configuration Accessories, spares and consumables	Quantity
Telescope-	01
Trocar & Cannula for telescopes	(160mm – 170mm)- 01 & (100mm – 110mm) - 01
Ring Applicator	02

Trocar and Cannula for Ring Applicator	02
Cones	05
Slide/guide	10
Veress Needles (10 cm)	03
Veress Needles (15 cm)	03
Essential Spares per unit:	
i) Spare Wash Spare washers for trocar and cannula and automatic valve	12
ii) Kits for cleaning:	
(a) Trocar Brush	2
(b) Cannula Brush	2
(c) Cleaning Oil 100 ml	2

Backlight material bags for light source and insufflators for easy carrying.

Environmental factors

<u>Specifications</u>
The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
The unit shall be specified for operation up to 45 deg C and 100% relative humidity

Standards & Warranty

<u>Specifications</u>
Should be FDA , CE,UL or BIS approved product
Comprehensive warranty and CMC as specified in Clause 2.
Manufacturer/Supplier should have ISO certification for quality standards.

Documentation

<u>Specifications</u>
User Manual in English
Service manual in English
Certificate of calibration and inspection.
User list to be provided with performance certificate.
Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point ,if not substantiated with authenticated catalogue/manual, will not be considered.
Spare Parts List (with part nos.)
<u>Test Requirements</u>
Conformity with the technical specifications

B. Carbon Dioxide Insufflators & Cold Light:

Specifications
<p>Electronic CO2 insufflators with pin index connection</p> <p>Should have an adjustable flow rate of 0 to 10 ltr. per minute and a pressure range adjustable between 0-30 mm Hg.</p> <p>Pressure and flow rate should be displayed on the front panel</p> <p>Provided with Silicon autoclave tubing with luer attachment.</p> <p>Instrument should work on a supply of 220-240 V, with a frequency of 50 Hz single phase. Fit for purpose</p>
<p>High Pressure Hose: High Pressure Hose suitable to connect the insufflators with pin indexed CO2 cylinder</p>
<p>Wrench Kit : Suitable for connecting the insufflators to CO2 cylinder</p>
<p>Carbon Dioxide Bottle: 5 Ltr. Carbon Dioxide bottle with pin index connection</p>
<p>Cold Light Source: Cold light source with dual control having 2 halogen lamps of 250 watts ratings each; operatable on a 220-240 V and 50 Htz supply.</p> <p>Backup light source compatible with SP and DP Laparoscope is also to be provided. Fit for purposes.</p>
<p>Fibre Optic Light Cable : 4.5-10 mm in diameter, 180-200 cm in length compatible with the cold light source and the commonly available telescopes (necessary adaptors may be provided)</p>
<p>Essential Spares (i) Main Cord: Compatible with insufflators and cold light source of 220-240 Volts. (ii) Halogen Spare Lamps: Halogen spare lamps of 250 watts</p>
<p>Formalin Chamber (for Sterilization of Laparoscopes): Of appropriate size for sterilizing the laparoscope</p>
<p>Tray for sterilization of Laparoscopes : Of appropriate size for sterilizing the laparoscope</p>

Environmental factors

Specifications
The unit should be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
The unit should be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 15-90%

Power Supply

Specifications
Power input to be 220-240VAC, 50Hz fitted with Indian plug
Suitable UPS – 1 KVA with maintenance free batteries for minimum one-hour back-up time should be supplied with the system.

Standards, Safety and Training

Specifications
Should be FDA , CE,UL or BIS approved product
Comprehensive warranty and CMC as specified in Clause 2.
Manufacturer/Supplier should have ISO certification for quality standards.

Documentation

Specifications
User Manual in English
Service manual in English
Certificate of calibration and inspection
User list to be provided with performance certificate
Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet .Any point , if not substantiated with authenticated catalogue/manual, will not be considered.
Spare Parts List (with part nos.)

System Configuration Accessories, spares and consumables

ITEM	QTY
Carbon Dioxide Insufflators	01
High pressure hose for Insufflators	01
Wrench Kit	01
Carbon Dioxide bottles	02
Cold Light Source	01
Fibre Optic Light Cable	02

Essential Spares per unit

ITEM	QTY
Main Cord: Compatible with insufflators and cold light source of 220-240 Volts.-	02
Halogen Spare Lamps: Halogen spare lamps of 250 watts-	02
Formalin Chamber (Of appropriate size for sterilizing the laparoscope)	01
Sterilization Tray (Of appropriate size for sterilizing the laparoscope)	02

Schedule No. 9 : Binocular Microscopes

Optical System :

- Infinitely corrected optics par focal, plan achromatic lenses with anti fungal properties.

Illumination :

- Built in transmitted Koehler illumination.
- 6 V, 20 to 30 W halogen bulb.
- 220-240 V, 0.85/0.45A, 50 Hz.

Focusing :

- Stage height movement by roller guide (rock & pinion).
- Upper limit stopper.
- Tension adjustable on coarse focus adjustment knob.

Revolving nosepiece:

- Quintuple with inward tilt.

Observation tube :

- Tube inclination – 30-45°.
- Interpupillary distance adjustment range – minimum 50 to 70 mm.

Stage:

- Movement range – 76 mm X – direction X 50 mm Y - direction.
- Rectangular scratch resistant stage with right hand control with double slide holder and vernier calipers on X Y axis.

Condenser:

- Type – Abbe condenser.
- N.A. – 1.2 dry type.
- Aperture iris diaphragm – built – in.

Objectives, Plan Achromat 4x, 10x, 20x, 40x & 100x

Minimum working distance for 100 X should be 0.13 to 0.2 mm

Eyepiece

- 10X with FN 20

All the necessary adapters and power cords should be provided for functioning of microscope.

Schedule No. 10 : Resuscitation Kit

For using to resuscitate adult as well as pediatric cases. To be supplied in a carry bag with following things

1. Should have laryngoscope blades of all sizes and pediatric and adult laryngoscopes
2. Should have adult and pediatric ambubags of silicone with oxygen reservoir bags and oxygen tube to connect to oxygen cylinder
3. Face masks anatomical adult small, large, medium and pediatrics Rendell baker 00,0
4. Venti mask for oxygenation 2adult and 2 pediatrics
5. Foot suction with suction bottle
6. Combi tube for adults
7. Laryngeal Mask Airway size 2.5, 3 and 4 classic type
8. Endotracheal tubes of different sizes cuffed(size 5, 6, 7, 8mmID) and non cuffed for paediatric use (size 3,4, 4.5, 5)
9. Sty lets adults and pediatrics
10. Magil's forceps one
11. Suction catheter size 10, 12, 14, 16 FG (2 each)
12. Syringes of different sizes 20, 10,5,2ml at least 5 each

**Schedule No. 11 : Open care system on trolley with drawers,
with radiant warmer, O₂ – provisions**

Technical Specification:

Mobile newborn resuscitation table with fixed – height radiant warmer.

Antistatic castors, 2 with breaks,.

Table surface with mattress with infant head/ shoulder support.

Mattress – padding: foam density approx 21-25 kg/m³

Mattress cover : removable with zipper, waterproof, washable, resistant to cleaning with chlorine based solution and flame retardant.

Side borders transparent acryl, drop down and lockable

Under table 2 storage drawers

Side rails allow for mounting of accessories

Hood suspended above the table integrates heating element and overhead light

Overhead Light : 2*50 watt halogen spot, with dimming function

Integrated support for two 10l oxygen bottles

Heating elements: emitter with parabol reflector and protected by metal grid.

Control unit allows air and skin temperature present (LED indicator) and drives radiant heater output (servo and manual)

Integrated timer: 1 to 59 min, with count up and count down feature.

Temperature range, skin : 34 to 38 c (user pre settable)

Monitoring of skin temperature by means of sensor, range : 30 to 42 C

Heater output : 0 to 100% in increment of 5 %

Control unit: audiovisual alarms according to timer and temperature present avoiding overheating

Display reports systems errors, sensor failure

Power requirement : 220V/50Hz

Power consumption : 800 W

Device is produced by ISO 9001 certified manufacturer (certificate to be submitted, further details see (technical provisions)

Supplied with:

1x mattress

1x skin temperature probe (including connection cable)

1x spare skin temperature probe (including connection cable)

1x spare heating element

2x empty 10 L oxygen cylinders

1 x spare of set of fuses

User manual with trouble shooting guidance in English.

Technical manual with maintenance and first line technical intervention instructions, in English.

List of priced accessories.

List of priced spare parts

List with name and address of technical service provider in India.

Standards, Safety and Training

Equipment should compile IEC standard to insure safety against electrical shock and fire. Equipment should be manufactured as per the guideline of FDA or CE

IEC 60601-1 Electrical Safety Certificate for Medical equipment should be provided

The manufacturer should be ISO certified and the equipment should be as per the relevant guidelines of FDA/CE/BIS

Training and installation at end-user site

Proposal for full Warranty up to 5 years from date of installed properly, covering on call technical intervention, spare parts and travel.

Schedule No. 12 : DOUBLE SURFACE PHOTO THERAPY UNITS

1 Description of Function

1.1	Phototherapy units are used to treat hyperbilirubinemia, a condition characterized by high bilirubin concentrations in the blood. These units are also called: bilirubin lamps, bilirubin lights, fiberoptic phototherapy blankets, neonatal phototherapy units
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2 Operational Requirements

2.1	The system should meet all the numerical values given in the technical specifications within a tolerance of +/- 10 %.
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3 Technical Specifications

3.1	<p>Technical Specifications:</p> <ol style="list-style-type: none"> 1. It should be two-way of phototherapy unit i.e. one phototherapy lamp should be from top and the other from below (both overhead and undersurface). 2. There should be option to use either of the lamps. In other words, whenever only overhead exposure is desired, the attending health care provider may have option to operate only the overhead lamp and not the lamp below the bed, and vice versa. 3. Each lamp unit should be provided with 4 tubes CFL emitting blue radiation between 450-480 nm wavelengths. 4. One each side of the panel of overhead tubes, day light tube should be provided to facilitate observation of baby and for performing practical procedures whenever required. 5. It should have height adjustment facility. 6. It should allow easy swiveling of box to allow positioning of portable x-ray machine. 7. The unit should be mounted on stand having lockable wheels (castors) for easy transportation from one place to other. 8. At the baby's surface, the exposure should be 4-6 u W/cm/nm. 9. It should have an hour counter to show the usage of tube lights & one for patient exposure. 10. The manufacture should give 3 years warranty of the system (except tube lights).
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4 System Configuration Accessories, spares and consumables

None

5 Environmental factors

5.1	The unit shall be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%
5.2	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

6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2	UPS of suitable rating shall be supplied for minimum 1 hour backup for the entire system

7 Standards, Safety and Training

7.1	Should be FDA or CE or UL or BIS approved product
7.2	Manufacturer should be ISO certified for quality standards.
7.3	Comprehensive warranty for 3 years and 5 years CMC after warranty including UPS.
7.4	Shall CERTIFIED to be meeting Electrical Safety requirements as per IEC 60601-2-50 Medical Electrical Equipment part-2-50 Particular requirements for the safety of Infant Phototherapy Equipments

8 Documentation

8.1	User/Technical/Maintenance manuals to be supplied in English.
8.2	Certificate of calibration and inspection.
8.3	List of important spare parts and accessories with their part number and costing
8.4	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.
8.5	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.

NOTE: The purchaser has the right to include any further requirement, of labeling, packing,etc at the time of issue of contract

THE PRODUCTS OFFERED ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS AS DESCRIBED IN SECTION II & III.

YES NO

ANY DEVIATION MUST BE LISTED BELOW:

NOTE: The Bidder shall prepare the following table and submit along with the bid for each schedule quoted.

Schedule No.....

Name of Equipment.....

Technical specification	Compliance (Yes /No)	Page number where the documentary evidence is submitted
1.		
2.		
3.		