EMPLOYEES' STATE INSURANCE CORPORATIONMODEL HOSPITAL
(ISO 9001:2008 Certified)
LAXMI NAGAR, AJMER ROAD, JAIPUR–302006
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No: 152/ESIC MH/Store/300 Bed Hosp.Equp./16-17 Dated: 11.10.2017

Two Bid Tender form for Hospital Equipment Items

E-Tenders in prescribed form, under **2-Bid system**, are invited by the Medical Superintendent, ESIC Model Hospital, Jaipur, for the purchase of the following Equipment of different departments:

Group – A (Table-1)

S.No.	Name of Equipment	Quantity	EMD (Rupees)	Turnover Criteria
1	Flexible Fibro-optic laryngoscope (Adult + Pediatric attachment needed)	1	85000	**Rs.01 Crore in each of the Previous three financial years2014-15 and 2015-16 and 2016-17**
2	CBC Haematoanalyzer- 5 part differential	1	60000	
3	Anesthetic ventilator	2	150000	
4	Uretero-Renoscopic set (US FDA)	1	40000	
5	Rapid Automated Blood Culture System	1	45000	
6	Video Bronchoscope with Accessories (Adult)	1	75000	
7	Surgical Operating ENT Microscope	1	75000	
8	Advanced Electro Surgical Unit having Monopolar, Bipolar with Vessel Sealing with RF Energy and Ultrasonic Energy System	1	75000	
9	C-Arm	1	75000	
10	Automated Immunoanalyzer	1	75000	
11	Automated Immunoanalyzer based on chemiluminescence	1	120000	
12	Power Drill	2	120000	
13	Automated Bacterial Identification and Sensitivity Detection System	1	100000	
14	High End Anesthesia work station	3	375000	

Group – B(Table-2)

S.No.	Name of Equipment	Quantity	EMD (Rupees)	Turnover Criteria
1	Laparoscopic Set (US FDA)	1	200000	**Rs. 02 crore in each of the Previous three financial years 2014-15 and 2015-16 and 2016-17**
2	Operating Microscope	1	175000	

ANNEXURE: I

Schedule to Tender No. 152/ESIC MH/Store/300 Bed Hosp.equp./16-17 dated 11.10.2017

Date of upload of Tender documents	*11.10.2017*
Pre Bid Meeting Date and Time/Place	*25.10.2017 at 02.30pm/ DMS Room (Room No 210), ESIC Model Hospital, Jaipur.*
Last Date and Time of upload of Tender documents (duly signed) on the e-tender portal https://esictenders.eproc.in	*Latest by 14.11.2017 till 04.00pm*
Last Date and Time of Submission of EMD at ESIC Model Hospital, Jaipur	*Latest by 14.11.2017 till 04:00pm*
Opening of Tender	*16.11.2017 at 02.30pm*
Opening of Financial Bid	*Approved firms will be communicated about the date of opening of Financial Bid.*
Earnest Money Deposit (in the form of Demand Draft/Banker's Cheque)	*As mentioned in* ***Table: 01 to 02***
Address for submission of EMD	*Dy Medical Superintendent, ESIC Model Hospital, Laxmi nagar, Ajmer Road, Sodala, Jaipur- 302006*
Performance Security Deposit (After finalization of tender in the form of Demand Draft/Banker's Cheque)	*A sum equivalent to the 10% of the cost of approved item(s)*

TENDER TERMS & CONDITIONS

1. PREPARATION OF TENDER:

A. The Tender/ forms are not transferable.

B. Tender is required to be uploaded in two separate bids viz. "Technical Bid" and "Financial Bid". Each and every page of the quotation is to be serially numbered and duly signed by authorized bidder/signatory and the official seal be affixed under it. All the entries must be free from cutting/ over-writing or correction.

C. **Technical Bid:** This should include following:

I) Earnest Money Deposit (In form of a Demand Draft) in the name of ESIC Fund A/C No.1 must be submitted to ESIC Model Hospital, Laxmi nagar, Ajmer Road, Jaipur-302006 before due date and time mentioned in schedule of tender.

II) Technical details of the quoted items with reference to tender specifications, supported by printed brochures.

III) Original Catalogue of Make and Model of each Equipment Items quoted.

IV) Warranty/Guarantee period for **minimum 3 (Three) years.**

V) Undertaking for quarterly visits of technical person for providing service during the Warranty Period.

VI) No hint of price/deal is allowed in Technical Bid. Such bidders will be disqualified.

VII) Authority letter to quote rate from manufacturer, in case bid is submitted by authorized dealer/agent. **SUBLETTING OF THE AUTHORITY LETTER OF PRINCIPAL SUPPLIER/MANUFACTURER IS NOT PERMITTED.**

VIII) Turn over certificate as per **issued by a Chartered Accountant** for Previous three financial years individually.

IX) The Covering letter should indicate the list of enclosures.

X) Local (Jaipur) address of the Authorized Service Centre of the manufacturer with Telephone No. /fax no. is mandatory.

D. **One bidder /supplier cannot represent more than one manufacturer or quote on their behalf in a particular tender at the same time.**

E. **Financial Bid(s):** It should comprise of the followings:

i) The unit price of each item must carefully be quoted separately for individual item.

ii) Rate should be quoted as lump sum price F.O.R. destination, in Indian Rupees inclusive of Cost of the Item, freight, insurance, transit insurance, packaging, forwarding, excise duty etc. as well as charges for installation and commissioning with all the men, material required for the same except GST. Price variation clause will not be acceptable.

iii) The rates of CMC for a period of five years after expiry of warranty must also be quoted in the financial bid. The same shall be considered for financial comparison of the final cost of item.

iv) **The Rate is to be quoted in Indian Rupee only in the price-format enclosed mentioning the serial number & name of item**. The rates must be free from any cutting / correction/ over-writing and be mentioned in figures as well as words. In case of cutting rates with respect to that item will not be considered.

F. In the event of the space on the schedule form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bear the Tender Number and be fully signed by you. In such cases, reference to the additional pages must be made in the Tender Form.

G. If any modification of the schedule is considered necessary, you should communicate the same by means of separate letter sent with the Tender.

H. Conditional Tenders & tenders with price variation clause shall not be accepted at all and will be rejected summarily.

I. The quantity of items **may be increased or decreased** as per the requirement of this Hospital.

2. SIGNING OF TENDER:

A. The tender is liable to be ignored if complete information is not given therein or if the particulars and date (if any) asked for in the tender are not fully filled in.

B. Individuals signing tender or other documents connected with the contract must specify:

i. Whether signing as a 'Sole Proprietor' of the firm or his Attorney?

ii. Whether signing as a 'Registered Partner' of the firm or his Attorney?

In the case of companies and firms registered under the Indian Partnership Act, the capacity in which signing e.g. Secretary, Manager, and Partner etc. or their attorney and produce copy of documents, empowering him to do so.

3. DELIVERY OF TENDER:

The tenderers/bidders have to **upload the scanned copies** of each page of tender, duly signed including the required certificates, documents, etc. on the e-tender portal https://esictenders.eproc.in latest by date and time mentioned in schedule of tender process. The Tenderer/bidder must send their Earnest Money Deposit (EMD) in the form of a Demand draft at the address mentioned in Schedule of Tender. The details of the equipment for which EMD is being submitted must clearly be mentioned.

4. SUBMISSION OF THE SAMPLES:

The firm shall provide samples of quoted item(s) in ESIC Model Hospital, Jaipur, before the Technical Evaluation Committee within stipulated time frame as and when asked for. Only one chance for demonstration will be given to the firm. **Quoted items should be of a reputed make/BIS/ISI/ CE/USFDA certified and marked as far as possible.**

5. LATEST HOUR FOR RECEIPT OF THE TENDER:

Your tender must upload not later than the time and date notified in the Tender Notice, stated in the schedule of tender. In the event of the stipulated date of opening of the tender being declared a closed holiday for Govt. offices, the date of opening of the tender(s) will be the next working day. **Demand Draft of EMD sent by hand delivery/registered post, should be delivered at this office not later than the due date and time stipulated in the schedule of tender.**

6. PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN:

i. All tenders shall remain valid for acceptance for a Period of Twelve Months from the date of Finalization of the tender.

ii. Quotations qualified by such vague and indefinite expressions such as 'subject to immediate acceptance'; 'subject to prior sale' etc. will not be considered.

7. OPENING OF TENDER:

All tenderers and /or their representatives, if they should desire, may be present at the opening of the tender at the time and date as specified in the schedule. Only Technical Bid (No priced) shall be opened first and shall be referred for the evaluation, the Financial Bid of only those tenderer will be opened whose Technical Bid is found acceptable and their sample are found suitable by this Hospital. The Financial Bid will be opened after taking demonstration of the item(s) by this Hospital for further action.

8. The decision of Technical Evaluation Committee on selection and suitability of the Items shall be final and shall not be open for discussion. No correspondence will be entertained in this regards. Medical superintendent does not pledge to purchase the lowest quoted item by any bidder.

9. VALIDITY OF TENDER:

The tender shall be valid for a period of **one year** from the date of award of the tender unless short closed before that by the Medical Superintendent. However, the Medical Superintendent on his discretion can also extend the period for further one year on the same Terms & Conditions.

10. DELIVERY TERMS & PERIOD:

a. The delivery of the stores/execution of work/providing the services etc., is required within a period as specified below and as the place mentioned therein. **Delivery Period – 30 Days from the date of Supply Order.**

b. The successful bidder shall deliver the stores at destination to the consignee in good order (of which the Medical Superintendent, ESIC Model Hospital, Jaipur shall be the sole judge) within the limits of the time.

c. The time for and the date of delivery of the stores stipulated in the schedule shall be deemed to be the essence of contract and delivery must be completed not later than the date(s) specified.

11. SUPPLY: The supply will have to be made within 30 days of the confirmed supply order. The stores may be handed over to Hospital central store and receipt be obtained from authorized person. In case of non-supply of the goods/ equipment ordered, the earnest money deposit shall be forfeited. The Store will receive Hospital Equipment during normal office hours and will verify the quoted price & other particulars and certify on the challan as well as bills.

12. All challan as well as the Bills are to be submitted strictly in triplicate. Bill should be pre-receipted with application of revenue stamp wherever necessary. Care should be taken to submit the challan and bills duly completed and without any errors to prevent rejection/cancellation/ delay in their processing of bills.

13. FALL CLAUSE: The tenderers must give certificate on the body of each bill while supplying the material(s) that the **"Price of supplied material(s)/ Item/ Equipment is not higher than the price charged from any public institution/hospital.**"

14. LATE SUPPLY PENALTY:

If the supply is not made within the stipulated time period, a late penalty of 2% per week or part thereof up to a maximum of 10% will be levied and deducted from the bill(s) without prior notice.

15. INSPECTION OF STORES/WORK:

Supplies shall be accepted/ work/ installation shall be certified as completed subject to inspection by Medical Superintendent, ESIC Model Hospital, Jaipur or his assigned representative. Any defect or any deviation found from the specifications found in the materials will be liable for rejection and decision of the Medical Superintendent, ESIC Model Hospital, Jaipur shall be final and legally binding. The rejected store shall be returned to the suppliers at their risks and cost.

16. RESPONSIBILITY FOR EXECUTING CONTRACT:

1. The contractor is to be entirely responsible for the execution of the contract in all respects in accordance with the terms and conditions as specified in the acceptance of tender.
2. The contractor shall not sublet transfer or assign the contract or any part of it. In the event of the contractor contravening this condition, Medical Superintendent be entitled to place the

contract elsewhere on the contractors account at his risk and cost and the contractor shall be liable for any loss or damage, which the Medical Superintendent, ESIC Model Hospital, Jaipur may sustain in consequence or arising out of such replacing of the contract.

17. REFUND OF EARNEST MONEY DEPOSIT:

In the event of the withdrawal/revocation of tenders before the date specified for acceptance, the earnest money shall stand forfeited and no correspondence in this regard shall be entertained. The earnest money of unsuccessful bidder will be refunded, without accrual of any interest, in due course of time as per official convenience.

18. SECURITY DEPOSIT:

On acceptance of the tender, contractor shall within the period specified by the Medical Superintendent, deposit as Performance security/ SECURITY DEPOSIT, a sum equivalent to the 10% of bill. The hospital authority shall be entitled to forfeit the Security Deposit or any part thereof without prejudice to any other remedies provided in the contract or available under the law. The Security shall be in the form of Demand Draft **in favor of "ESIC FUND ACCOUNT No. 1", Payable at SBI Branch, Hatwara Road, Jaipur.**

a. If the contractor fails in fulfilling above-mentioned Terms and Conditions, such failure will constitute a breach of the contract and the Medical Superintendent shall be entitled to make other arrangements at the risk and expense of the contractor.

b. After 60 days of the completion of the contract in all respects, the Security Deposit will be returned to the contractor without any interest on presentation of Satisfactory Performance Report from the user unit. **Security Deposit will be forfeited in cases of Unsatisfactory Performance Report.**

19. RECOVERY OF SUMS DUE:

Whenever any claim for the payment of a sum of money arises out of or under this contract against the contractor (tenderer) the purchaser shall be entitled to recover of such sum by appropriating, in part or whole the security/earnest money deposited by the contractor, when the balance or the total sum to be recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to recoverable under this or any other contract with the purchaser. If this sum should not be sufficient to cover the full amount recoverable, the contractor shall pay to the purchaser on the demand the remaining balance due.

20. RESERVATIONS:

The Medical Superintendent reserves the right to accept or reject any or all tender in part or full without assigning any reason thereof.

21. NON SUPPLY/ RISK PURCHASE: In case of failure to supply any or all items as per requisition/purchase order/specification/approved brand of item, it shall be treated as 'non-compliance' and 'breach of contract', and the order in part or full shall be arranged from alternative source(s) at the discretion of the hospital authority and the difference in prices will be realized from the tendered with whom the contract is made by way of any of his subsequent/pending bills or security deposit.

22. **EMERGENCY PROVISIONS**: The tenderer or his representative should be available/ approachable, 24 hours a day over phone for maintenance of items if breakdown occurs in supplied item(s). In case of any emergency requirement, if the order is placed for any item any time, the requisitioned item shall have to be supplied immediately. The contact telephone number and mobile number must be provided to the hospital authority for such purpose.

23. **WARRANTY**: All Quoted item(s) must carry comprehensive warranty of 3 (three) years from the date of satisfactory installation, including free breakdown maintenance. A technical person for providing service during the Warranty Period must visit on quarterly basis. In the event of equipment covered under warranty going out of order, the fault shall have to be attended to within 24 hours of lodging the complaint. In case the equipment is not restored in functional order within one week a penalty of 0.25% of the total cost of the equipment per day for the period equipment remaining out of order shall be levied and deducted from the security deposit without notice.

24. **CMC CLAUSE:** The firm will have to submit CMC proposal for the period of five years.

a. The bidder shall enclose an undertaking by the manufacturer of the equipment for the servicing of the equipment and supply of the spare parts whenever required for a period of minimum 5 years after the expiry of the warranty period.

b. In the event of equipment covered under CMC going out of order, the fault shall have to be attended to within 24 hours of lodging the complaint. In case the equipment is not restored in functional order within one week a penalty of 0.5% of the total cost of CMC of the equipment per day for the period equipment remaining out of order shall be levied and deducted from the bill without notice.

c. If the equipment needs calibration the firm will be responsible for calibration as a part of CMC.

25. **FOR SPARES:** along with rates of CMC a list of commonly used spares with price-list shall have to be enclosed.

26. **WORKING DEMONSTRATION:** Shall be provided in ESIC Model Hospital, Jaipur to Technical Evaluation Committee with in stipulated time frame as and when asked for & **only one chance for demonstration will be given. No request for second chance shall be entertained.**

27. **ARBITRATION**: In case of any dispute (between the purchaser and the tenderer) arising under the contract or in regard to the interpretation of the terms and conditions of the contract, decision of the Medical Superintendent or any other officer nominated by him to act as arbitrator in the dispute, shall be final and binding on both parties of this contract. In case of disputes all the legal matters will be under the jurisdiction of the Courts of Jaipur, Rajasthan.

ANNEXURE: II

UNDERTAKING

(On Non-Judicial Stamp Paper of Rs 100/-)

To,

Medical Superintendent,

ESIC Model Hospital, Laxmi Nagar,

Ajmer Road, Jaipur 302006

Respected Madam, /Sir,

1. The undersigned certifies that / we have gone through the terms and conditions mentioned in the tender document including annexure & same are acceptable to me/ us and I/ we undertake to comply with them. The rates quoted by me/us are valid and binding on me/us for acceptance for the period of one year from date of finalizing the tender.
2. It is certified that rates quoted are the lowest quoted by me/ us for any other Institution/Hospital in India.
3. Earnest money deposited by me/us in the form Demand Draft/Banker's Cheque in favor of ESIC Fund Account No.1, payable @ SBI Branch, Hatwara Road, Jaipur is enclosed herewith and shall remain in custody of the Medical Superintendent ESIC MODEL HOSPITAL, JAIPUR as per terms and conditions.
4. (A) I/We give the rights to Medical Superintendent, ESIC Model Hospital; Jaipur to forfeit the Earnest Money deposited/ Security Deposit submitted by me/us if any delay occurs on my/ our part or fails to supply the article at the appointed place and time and of the desired specification.

   (B) I/We undertake that I/We will be in a position to provide CMC, spare parts, consumables during warranty as well as for a period of five years after expiry of warranty. I/We also undertake to keep the equipment in working condition round the year during warranty /CMC period. If not done so I/We authorize Medical Superintendent to deduct penalty as per the terms and conditions.
5. There is no vigilance/CBI case or court case pending against the firm/supplier.
6. On Inspection if any article is found not as per supply order, it shall be replaced by me/us in time as asked for, to prevent any inconvenience, at my/our own expenses.
7. I/we hereby undertake to supply the items as per directions given in supply order within the stipulated period.
8. I/we hereby undertake to provide guarantee/warranty as mentioned in specifications from the date of satisfactory installation and inspection. I also undertake that I will maintain the equipment(s) during this period and replace the defective parts free of cost, if necessary.
9. I/we hereby certify that I/we have authorized service center in Jaipur & the address of which is as below----------.
10. I/we understand that Medical Superintendent, ESIC Model Hospital Jaipur, has the right to accept or reject any or all the tenders in part or full without assigning any reasons (s) thereof.

Date: **Signature of the Tenderer:**

Place: **Full Name:**

Designation:

Address:

(Office seal of the tenderer)

ANNEXURE: III

AUTHORIZATION CERTIFICATE

To,

Medical Superintendent,
ESIC Model Hospital, Laxmi nagar,
Ajmer Road, Jaipur-302006.

Respected Sir/Madam,

Authority letter against Tender No. _____ due on _____ item quoted _____.

We, _____, who are established and reputed manufacturers of _____ having factory at _____ and hereby authorize M/s _____ (Name and address of agent) to bid, negotiate and conclude the contract with your institution against above tender for the above Hospital Equipment Items manufactured by us. We hereby extend our full guarantee/warranty as per the Terms & Conditions of tender for the goods offered for supply against this invitation of bid from the above firm. We also confirm that the spares and any other miscellaneous items (As applicable) of the items quoted will be freely available for at least five years after expiry of warranty/guarantee period.

Our other responsibilities include:

1. Information regarding the name of new agent, in case of change of agent.
2. The services to be rendered by M/s _____ having address and contact details as under

_____

_____.

(Here specify the services to be rendered by the agent)

Yours faithfully

(Signature & Name of manufacturer)

ANNEXURE-IV

Hospital Equipment Items with their Technical Specifications

Group - A

S. No.	Name of Hospital Equipment	Specifications
1	Flexible Fibro-optic Laryngoscope (Adult+ Pediatric attachment needed)	• Should be flexible • Should have a field of view of at least 90 • Should have a depth of field from 3 to 50 mm. • Insertion tube should permit sliding of endotracheal tube of at least 5 mm or more over it. • Should have at least 130 upwards and 130 downwards angulation. • Should have a working length of at least 600 mm. • Should have facility of suction and oxygen insufflations. • Should have a light guide illuminating system. • Should provide suitable LED light source with minimum 150 w light output with 5 spares. • Should have automatic / manual white balance facility. • Power source – both battery and light source. • The battery should be rechargeable having good shelf life with backup of at least 20 minutes. • Should work with input 200-240 Vac, 50 Hz supply. • Should have manual light intensity control. • Should have cooling system. • Should have camera head and medical grade HD monitor of 21 inches or more. • Should be supplied with all standard accessories including storage box. List of standard accessories should be specified in the technical bid. • Should have safety certificate from a competent authority CE/FDA (US)/STQC CB certificate/ STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of certificate / test report should be produced along with the technical bid.
2	CBC Haematoanalyzer- 5	1. It should be 5 part differential hematology analyser based on fluorescence flow cytometry or equivalent stain and nucleic acid stain using laser light source/ light source technology for leucocytes, DLC immature granulocyte / immature population. 2. For RBC and platelet measured by impedance/ hydrodynamic focusing DC detection method. 3. Hb should be measured by cyanide free method. HCT should ba a measured parameter. 4. It should able to report 24 parameter WBC, RBC, Hb, HCT, MCV, MCH, MCHC, PLT, Neu%, Lympho%, Mono%, Eo%, Baso%, Neutro#, Lymph#, Mono#, Eosino#, Baso#, RDW-SD, RDW-CV, PDW, MPV, PCT and two research parameters. 5. Through put 80-100 samples / hour with facility of Autoloader mode as well as mannual mode.

	part differential	6. Sample volume <55µl. It should have clot removal facility. 7. It should report 3 histogram and one scattered gram with malaria parasite flagging. 8. Instrument and following parameters should be US- FDA approved: WBC, RBC, Hb, HCT, MCV, MCH, MCHC, PLT, Neu%, Lympho%, Mono%, Eo%, Baso%, Neutro#, Lymph#, Mono#, Eosino#, Baso#. LATEST Certificates should be provided. 9. Instrument should have comprehensive information processing system using inbuillt/ separate branded computer system with 15" monitor and laser printer with window 7 based software. 10. It should have LAN/LIS and RS 232 port. 11. Company should have its own calibrator, control and manufacturing unit and RD wing. A proof should be enclosed. The equipment should be a closed system. 12. It should have 20 QC files with 300 data points. 13. Minimal linearity : • WBC – 0.02- 4,00,000 cells/µl • Hb – 0.00- 24.0 gm/dl • RBC - 0.5- 8 millions/ µl • PLT – 0- 15,00,000 cells/ µl 14. Company should mention the name, employment no of service engineer locally based in various cities of rajasthan with their contact no. Engineer should be avilable within 24 hours after breakdown call. 15. Company should quote cost of reagents, controls; calibrator other frequently used spare parts in **finanial bid** that shall be freezed for minimum 3 years. 16. Company should also mention cost per test including startup and shutdown when 100 samples are analyzed at the same time in **financial bid.** 17. All specification shall be mentioned in original brochure and letter head of the company (compliance sheet). Any specification mentioned on letter head of distributor shall not be considered. 18. Firm should provide calibrator and calibration certificates once in a year free of cost during guarantee period as per NABL guidelines. 19. Should have extensive QC features with option for online QC. 20. One standard pack size start u reagent kit with Tri –level control should be supplied along with equipment at the time of installation. 21. Company should provide suitable UPS of one hour backup and part proof cabinet made of acrylic. 22. Final technical approved after demonstration. 23. All items / spare parts required for functioning of the equipment during guarantee and CMC period shall be provided with no extra cost. 24. Firm should mention all pre installation requirements in

		technical bid. **Note:** Instrument should be internally reputed manufacturer. Should comply with US FDA. Demonstration is a must. CO +/ Catalogue number and article number should be mention on each and every instrument. There should be country of origin /manufacturing engrave on each and every instrument. Company should have local service engineer, such declaration required on letter head.
3	Anesthetic ventilator	**General specifications:** • All the material/ equipment should be European CE & US FDA certified. • All the electronic equipment's should comply with electrical safety conforms to standards for electrical safety IEC 60601-1. • All the equipment's power input should be 220- 240 V AC, 50 Hz fitted with Indian plug. • Demonstration of a quoted equipment model is must. • Should have local service facility. **General requirements:** • Should have access through touch screen and rotary dial. • Screen size should be 10" inch or more. • Can be titled and rotated for maximum flexibility with scroll and zoom function. • Compressed air/ oxygen driven. • Should have the following modes. 1. Volume and pressure controlled modes 2. SIMV (pressure controlled and volume controlled) with pressure support 3. Pressure support with backup ventilation 4. Spontaneous modes like CPAP/ PEEP 5. Inverse ratio ventilation 6. Advanced mode like pressure regulated volume control mode 7. Airway pressure release ventilation 8. Non- invasive ventilation in all modes • Should have the facility for following settings. 1. Tidal volume : Minimum 20 ml and maximum of 1500 ml or more in volume control 2. PEEP up to 50 cm H_2O or more 3. Should have flow triggering and pressure triggering with trigger flow of ≥ 2 lit/min., Trigger pressure (-)20 to 0 cm H_2O below PEEP 4. I:E ratio 1:10 – 4:1 5. Flow pattern: square, Decelerating, Sinusoidal. 6. Respiratory rate up to 80 bpm or more 7. Inspiratory plateau up to 60% of inspiratory time. 8. SIMV rate up to 60 cycles/ min 9. Pressure support slope : up to 150 cm H_2O/sec 10. FIO2: 21% - 100% 11. Should be provided with inspiratory and expiratory flow sensor 12. Manual cycle, inspiratory pause, expiratory flow sensor. 13. Manual cycle, inspiratory pause, expiratory pause and prolonged expiration. ▪ Should be able to monitor and measure the following parameters

		1. Tidal volume 2. Plateau 3. Mean airway pressure 4. Peak airway pressure 5. Intrinsic PEEP 6. RSBI (rapid shallow breathing index) – it should be a standard parameter. 7. Resistance and compliance ▪ Should have ultrasonic/ pneumatic nebulizer, which should be synchronized with inspiration ▪ Should have the facility to find (lower inflection point) and UIP (upper inflection point) ▪ Complied trend analysis at least for 24 hours for all measured parameters. ▪ Should have facility to compare 2 or more loops/ graphs of similar type. ▪ Should have facility to measure : 1. Pressure / volume loops 2. Flow/ volume loops 3. Pressure/ flow loops • Should display minimum 4 curves/ graphs simultaneously on the screen • Should have audio- visual alarms for the following parameters 1. FIO2 peak inspiratory pressure – High & low , expiratory pressure 2. FIO2 – high & low 3. Respiratory rate – high & low 4. Tidal volume – high & low 5. Minute volume – high & low 6. Apnea 7. Battery 8. Gas failure • The ventilator and compressor should be US FDA & CE certified & approved. • Should have external integrated compressor from the same manufacturer. • Should have battery backup of minimum 60 minutes for compressor and ventilator. • Should have ultrasonic/ paramagnetic / galvanic O2 sensor. All sensors should be covered in warranty – guarantee and CMC. • Should be upgradable to integrated ETCO2(capnography) – optional • Should have facility for ventilation data transfer and network connection • Accessories with each unit – ➢ Humidifier – 1 ➢ Reusable circuits: Pediatric – 5 , Adult – 5 ➢ Disposable circuit : Pediatric – 5 , Adult - 5 ➢ Filters – HME x 50 ➢ Expiratory valve / cassettes – 2 sets (Reusable) ➢ Flow sensors – 10 ➢ Support arm for the breathing circuit from the same manufacturer. ➢ Ventilator trolley circuit from the same manufacturer. ➢ O2 hose – 2 nos.

		➢ Air hose – 2 nos. ➢ Humidifier – (Reusable chambers) Pediatric – 3 , Adult – 3 ➢ Disposable chambers & circuits : Pediatric – 10 , Adult – 10 ➢ Test lung : Pediatric – 1 , Adult – 1 ➢ Nebulization kit: Pediatric – 10 , Adult – 10
4	Uretero-Renoscopic set (US FDA)	**SPECIFICATIONS OF FIBER –URETERO- RENOSCOPE (6/7.5 Fr.)** • Fiber – uretero – Renoscope – E –LINE • Should have angle of view 5°, with offset eyepiece. • Should have working length 430mm • Should have distal tip of sheath 6 Fr. • Should have oval irrigation 4.2X 4.6 Fr. • Should have instrument channel 1X4 or 2X2.4 Fr. • Should have accessory instruments of max. 4 Fr. • Should be with grasping forceps (mouse – jaw), Hy safe system cpl., consisting of: handle and insert with sheath, 4 Fr., WL 550mm **SPECIFICATIONS OF FIBER –URETERO- RENOSCOPE (4.5/6.5)** • Compact Needle operating fibreuretero-Renoscope • Should have angle of view 5 deg. • Should have 4.5/6.5 Fr. • Should have instrument channel 1x3 Fr. • Should have working length 430 mm **SPECIFICATIONS OF FIBER –URETERO- RENOSCOPE (8/9.8)** • Fiber- uretero – Renoscope " E-Line", compact 8/9.8 Fr. • Should have oval irrigation and instrument channel (5.2X6.2 Fr./ 1X5 or 2X3 Fr.) for accessory instruments of max 5 Fr. • Should have angle of view 12° with offset eyepiece. • Should have distal tip of sheath: 8 Fr. • Should have working length 430mm • Should be with grasping forceps (alligator jaws), Hysafe system cpl. Consisting of: handle and insert with sheath, 5Fr. WL 550mm. • Should be with grasping forceps (mouse- jaw), Hysafe system cpl., consisting of: handle and insert with sheath, 5Fr. WL 550mm.
5	Rapid Automated Blood Culture System	**General:** • Tender is invited from reputed original manufacture on their authorized agents/ dealers only. • Installation and satisfactory reports from India should be provided along with tender. • The company must ensure proper demonstration and training to the hospital staff/ technicians. • Company should ensure uninterrupted supply of consumables for the next 10 years. • Custom clearance, Transport to the laboratory and commissioning/ installation shall be the responsibility of the supplier/ firm. All necessary cables, wires and accessories required for installation of the equipment and instruction manual of the instrument should be provided. • Service and maintenance must be provided on the site of installation within 24-48 hours. **Technical:** • The system should be US FDA certified, latest product of the company. • The system should be fully automated, continuous monitoring

		blood culture testing system. • It should have modular design to facilitate future expansion with minimum 30- 40 sample positions and upgradable on site to ≥ 150 sample positions. • The system should be configured independently for culture of blood and body fluids including low volume sterile body fluids for bacteria including mycobacterium and fungi including yeast. • The system must have facility for early and reliable isolation of organisms. • The system must incubate, agitate and continuously monitor bottles with > 15 algorithms to monitor growth patterns for determining positive culture. • The system must have bar code scanning facility with data management work station along with computer and printer linked to it. • Mention the principal of the technology on which the system work whether colorimetric/ fluorometric or any other recent technology. • Should have special separate broth media for aerobic and anaerobic culture, resin based or better media to neutralize antibiotics in blood at trough , mid and peak levels, media for small blood volume inoculation, media for paediatric patient's samples and fungi etc. • The system should have automated quality control and calibration facilities without need of any routine daily user/ manual intervention and reduced sharp hazards. • The system should work on 220 volts with or without transformer which should be provided by the firm. • The system should be supplied with all required furniture and online 3 KVA or suitable UPS supply of with minimum 2 hours backup for working/ installation. • Firm should provide all required media, reagents and consumables for demonstration and validation of the system. • Mention the cost of consumables/ recurring expenditure of your machine along with cost per test and availability of your kits. • Round the clock loading of culture bottles should be possible without software intervention. • The system should come with touch screen inbuilt or external monitor with visual external and internal LED indicators for station status. • It should be capable of bi – directional interfacing with LIS/HIS. • The system should provide basic data management functions for patient demographics or culture information. • Reports generation should be customizable with sorting and printing capabilities along with scheduled to print at a pre-determined time. • Media bottles should be fully compatible with vacutainer holders without the need for a special adapter. • The system should be supplied with 100 culture media bottles for use of each adult's samples, paediatric samples, fungi and anaerobes for demonstration and standardization of the system. • The firm must submit pre- installation requisite along with tender document. **Note:** The availability of any required technical feature of the quoted equipment as indicated should be carefully and authentically

		answered with valid proof in the form of printed broachers etc. Any default in this matter will attract rejection of the tender along with forfeiture corresponding EMD.
6	Video Bronchoscope with Accessories (Adult)	**1. <u>Technical Specifications:</u>** **<u>VIDEO BRONCHOSCOPE (ADULT)</u>** a. Latest Colour CCD Chip Technology b. Compatible Xenon light Source with back up Halogen source c. Compatible latest Colour Monitor d. Compatible image capturing device with adequate detachable and storage memory device e. Field view: 120 degree or more f. Depth of field: 3mm to 100mm or better g. Direction of view: Forward viewing h. Distal end Diameter: Approximately 6mm i. Insertion tube diameter: Approximately 6mm j. Total Length: 820mm to 930mm k. Working Length: more than 600mm l. Minimum visible distance: 3mm from distal end m. Instrumental Channel inner diameter: More than 2.8mm n. Bending Range: Upward 180 degree and Downward 130 degree o. Separate instrument channel for Therapeutics. Should be compatible with the above video processor unit, xenon light source, RGB colour monitor and image capturing device. **2. <u>Operational Requirements</u>** a. Light weight and fully immersible in disinfectant solution b. Compatible with LASER (YAG Diode) c. Compatible with electro-surgical accessories **3. <u>Standard set should include biopsy forceps</u>** a. Fenestrated and Alligator type biopsy forceps b. Aspiration biopsy needle c. Grasping Forceps (Shark Tooth type) d. Cytology Brush set with Reusable sheath e. Cleaning and maintenance kit and trolley to accommodate above mentioned system with electrical extension board **4. <u>Standard and Safety</u>** a. Certified to meet current leakage requirement for medical equipment particular requirement for safety of endoscopy equipment b. Should be FDA/CE/UL or BIS approved product c. Manufacture should be ISO certified for quality standards **5. <u>Additional Accessories</u>** a. Disposable Biopsy Valve b. Disposable suction valve c. Mouth piece- Minimum two pieces d. Water Resistant Cap (1 Pc) e. Leakage tester (1 Pc) **6.** Additional Accessories as per standard conditions are to be quoted in the price bid separately which should be valid for FIVE years from the finalization of the tender.
		1. Compact, flexible suitable for any size operation theatre. 2. Motorized apochromatic zoom magnification changer. 3. Apochromatic corrected for all three colours. 4. Facility of changing inclination angle of microscope over coarse and fine range. 5. Inclinable binocular tube with F-170mm with IPD adjustment through knob from 55mm—75mm.

7	Surgical Operating ENT Microscope	6. 12.5 x wide field push in eye pieces. 7. Comfortable hand grip with easy control of zoom, focus, illumination brightness controls. 8. **Coaxial**fibre optic illumination. 9. Interchangeable objective lens F-400m**, f-250mm** with focusing mechanism with fine focusing range upto 13mm. 10. Base on wheels, 360 degree rotatable arm on main-stand. Arm movement up/down upto +/- 300mm, Height around 1700mm Arm length 500mm-600mm. 11. All cable should be inside stand for protection 12. Easy motorized balancing. 13. Should be CE certified. 14. After sale service within 48 hours. 15. Local service network or service representative with complete details phone no., email address etc.
8	Advanced Electro Surgical Unit having Monopolar, Bipolar with Vessel Sealing with RF Energy and Ultrasonic Energy System	• It is advanced electrosurgical fusion system with RF energy provides 300W output generator and LCD touch screens display only for monopolar , Bi-polar and vessel fusion integrated in one generator. • The generator should have three visible screens on the same panel. • The system must be micro- processor controlled which should identify the tissue type with a feedback of at least 3000 times/ second on real time basis, and adjust the power to get the desired surgical effect on the tissue. • The power efficiency rating (PER) should be between 96 to 100 in bipolar modes, 96 to 100 in monopolar cut mode and 92 to 100 in monopolarcoag mode. • System should have 2 monopolar output, 1 endoscopic monopolar output and 2 vessel sealing output and separate ultrasonic energy device. • The monopolar output must have cut, blend, “Hemostasis with division (HWD)”, Fulgurate and spray mode. • The Bi polar must have low, standard and macro mode with auto Bi-polar control. • System should have separate monopolar , bipolar & vessel sealing foot pedal. • System should have smart connect technology for instruments.(No transducers required) • System should have two different vessel fusion outputs which should be able to seal artery, veins along with tissue bundle including 7mm, and fused vessels should be able to withstand more than 3 times of normal systolic blood pressure. • The vessel seal system should be of minimum of 150 W with bar control power setting facility. • Ultrasonic energy device should seals vessels up to 5 mm, provides faster dissection speed and reduces sealing time. • Surgeon should have the facility to control the power from the sterile zone with a sliding control 3- button hand switching device. • An ultrasonic dissection device should produce high frequency ultrasonic energy for soft tissue incisions where bleeding control and minimal thermal injury are desired. Utilization in surgical specialties (Laproscopy) that include: general (including upper gastrointestinal), Bariatric, colorectal, Gynecological and urological procedures.

		• Complete cordless design for ultrasonic device that improves freedom of movement (NO CORDs in sterile field) • The system should have demo mode facility and recall the last setting used by user. • Should have six combination of cutting and coagulation settings • Should be compatible with storz and wolf resectoscope. • System should be compatible of REM polyhesive contact quality monitoring system. • System should have audio- visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate. • Composed of single use and reusable components for maximum efficiency • Simplified setup that increase O.R. efficiency; max 15 sec set up time • Vessel fusion system should be able to seal artery, veins along with tissue bundle including 7mm, and fused vessels should be able to withstand 3 times the systolic blood pressure. • The system should be able to seal vessels or tissue bundles faster than any conventional devices (preferably within 2-4 seconds) • All open surgery including head and neck and thyroid can be precisely controlled with very less thermal spread by using sealing technique. • Integrated seal with choice of cut of 10mm and 5mm should be there. • System should have 5mm vessel sealing electrical instrument with blunt tip for dissection and faster procedure. • Both footswitch and hand control mode should be available. • System should have reposable open surgical instruments for vessel sealing purposes. • System should be compatible with argon coagulator. • The system should be upgradable and has RS232, USB, Ethernet port for on field software downloads, upgrades and serviceability. • The system should be compatible with argon machine & smoke evacuation system. • Dual- mode energy hand switch button for enhanced procedural focus for ultrasonic energy device • LED and sound feedback. • Hand activation control only. • System should be USFDA and European CE approved. **Accessories:** unit will supply with standard accessories. • Monopolar hand switch & cable • Bipolar hand switch & cable • Monopolar and bipolar foot switch • Univ active adaptor • REM patient pad • Electrosurgical pencil • Bipolar cord • Ligasure foot switch • Bipolar forcep • Open & laparoscopic probes with specification as under • Open &laproscopic 10mm and 5mm seal and cut instrument with hand switch activation capability should provide with the system

		• Vessel sealing instrument with divider required for open surgeries with instrument length between 18-19 cm and electrode length between 16-17 cm, having 28 degree curved jaw with contoured tip for blunt dissection and having activation both through hand activation and foot activation. • 36mm jaw length, 180 degree rotatable instrument with curved blade for large volume tissue. • Reusable vessel sealing instrument, non-sterile having 18cm instrument length, 30 degree curved jaw. • Reusable vessel sealing instrument, non-sterile having 27cm instrument length, 60 degree curved jaw. • Vessel sealing instrument with divider required for open surgeries with length between 18-19 cm, 180 degree shaft rotations, with 12-14 degree jaw curve. • 5mm multifunctional laparoscopic device for tissue and fusion and dissection • The weight of the machine should be lee than 15 kgs, height not more than 12 inches, length not more than 24 inches, width not more than 20 inches. • Three button hand switching pencils • Contact quality monitoring return electrode • Bayonet bipolar forceps with cord • Universal adaptor - 01 no • Reusable generator – 01 no • Reusable battery – 01 no • Ultrasonic dissector – 02 no • Battery charger (one time purchase) – 01 no
9	C-Arm	**1. <u>Image intensifier</u>** • Image intensifying tube: 9 inches, triple field normal = 9" , Zoom facility • Nominal entrance field size: 200 mm or more • Output image diameter: 230 mm or more • CCD Camera: high resolution compact CCD camera ½" size, pixel: 1024x1024. • Monitors and Trolley: 2 Nos 17" or more medical grade monitors along with modular trolley. • Image intensifier head safety lock: to be provided. **2. <u>C arm mobile stand</u>** • Rotation: = 180 degress • Up/down movement with Actuator/Motorized: 400 mm or more • Horizontal Travel: 200 mm or more. • Arc orbital movement: 120 degress. • Wig wag: +/- 12.5 degress. • Tube head: 15 KHz or more stationary anode dual focal tube. • Min voltage: 100kv • Fluoroscopic mA: 0.1-1.5 mA or more (normal mode) • Pulse fluoroscopy mA: 0.1-3 mA or more. • Radiographic mAs: 200mAs or more **3. <u>INVERTOR</u>** • Mains Voltage: AC/DC converter for H.F. X- ray generator (suitable for X- ray tube) • Max. output power: 3.5 KW or more • Display for: display for KV,mAs,mA • Radiography: Manual & APR.

		• Technique selection: Fluoro and radio mode selection. • Radiographic timer: an inbuilt radio timer enables to select up to 200 mAs. • Fluoroscopic timer: five minutes cumulative timer with buzzer. • Fluoro mA: continuously variable. • Should support USB for image storage. • Collimation: radiation free, IRIS collimation • The X- ray tube should be AERB approved. • Auto brightness • Should have battery support of at least 30 minutes back up and at least 25 exposures. • The equipment should he supplied with 06 numbers good quality, light weight lead aprons. • Onsite QA as per AERB guidelines is must. 4. The company should be ISO certified. 5. **Consumable**: NIL
10	Automated Immunoanalyzer	**General:** • Tender is invited from reputed original manufacture on their authorized agents/ dealers only. • Information regarding Installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. • The company must ensure proper demonstration and training to the hospital staff/ technicians. • Company should ensure uninterrupted supply of consumables for the next 10 years. • Custom clearance, Transport to the laboratory and commissioning/ installation shall be the responsibility of the supplier/ firm. All necessary cables, wires and accessories required for installation of the equipment and instruction manual of the instrument should be provided. • Service and maintenance must be provided on the site of installation. **Technical:** • The system should be latest product of the company, provided with authorized certificates. • The equipment should be US FDA/CE/CDC certified. • The system should be automated bench top analyser for detection of infectious markers and autoimmune disease markers. • The system should be based on either ELISA/ELFA or any or any other recent technology. • The system should be a single dose entry immunoanalyser , should not require any additional reagents/ calibrators etc. to carry out the tests apart from the ones supplied with the test kits. • All kits and reagents should be bar coded and/or colour coded for identification & traceability. • There should be no manual intervention after loading of the samples. • The system should able to carry out minimum 10 tests at a time with facility of even performing single tests without any additional cost. • The calibration requirement should be minimal. • There should be a very broad menu of more than 60-70

		parameters with low turnaround time. • There should be minimal fluidics to minimize the frequency of break downs. • There should be no carryover of samples during the test. It should use disposable concept. • There should be facility of inbuilt print out of results for which 5 extra paper rims to be given and option to connect to external printer through external desktop computer. • The system should have the facility to store at least last 50 tests cycles. • The system should be able to perform qualitative and quantitative analysis of infectious markers (including TORCH, rheumatology markers, viral markers), autoimmune diseases markers, rarely detected organisms like *Echinococcus, Listeria, Q fever, Mycoplasma, Treponemes*etc. and additionally hospital acquired infections. • The pack sizes should be smaller (not more than 50) • The system should be supplied with required furniture, one desktop computer with all accessories, external printer and online UPS supply for at least 2 hours backup for working/ installation. • All required kits & reagents costs should also be quoted along with system. • The system should be supplied with at least 10 test kits for routine asked tests for demonstration and validation of the system. **Note:** The availability of any required technical feature of the quoted equipment as indicated should be carefully and authentically answered with valid proof in the form of printed brochures etc. Any default in this matter will attract rejection of the tender along with forfeiture corresponding EMD.
11	Automated Immunoanalyzer based on chemiluminescence	**Technical Specification** 1. Instrument should be fully automated immune diagnostic system based on chemiluminescence technology. 2. Instrument should have continuous re-loading facility for samples with primary tube sample loading for minimum 50 samples. 3. Instrument should have capacity to assay in random access and batch mode with stat function. 4. Instrument should have through put of minimum 100 tests per hour. 5. Instrument should have capacity to hold minimum 20 reagents on board at a time. 6. Instrument having facility to use varying sample tube types with diameter varying from primary tubes – 12, 13*75 mm glass or plastic ; 16*75 mm, 13,16*100 mm, sample cups: 2.0,3.0 mL, 1.0mL, 2.0mL insert cups, pediatric insert. 7. Instrument should have facility for clot, bubble, viscosity and inadequate sample detection. 8. Instrument should have facility for onboard auto dilution and reflex testing for high and abnormal samples. 9. Instrument should have effective wash technique to prevent carryover.

		10. Instrument should have access for loading reagents and unloading non- utilized reagents without interrupting analyzer processing. 11. Sample volume should be up to 200 µl depending upon the analyte. 12. Instrument should have inbuilt facility for reagent mixing. 13. The reagents available should be ready to use. 14. Instrument should have facility to load reagents on the fly. 15. Instrument should minimal number of probes to avoid frequent break down and minimize maintenance. 16. Instrument should have inbuilt refrigeration system for long on board stability of reagents. 17. Instrument should have universal barcode reader and should be able to read multiple barcode types. 18. Instrument should keep track of calibration validity and on – board reagent stability. 19. Instrument should have facility for inbuilt inventory management of reagents. 20. Instrument should have true calibration method to ensure precision and accuracy. 21. Instrument should have inbuilt QC system to monitor the quality results obtained and LJ charts must be visible. 22. Instrument should have self-diagnosis system for error and error recovery system. 23. Instrument should give results in both test- wise and patient wise format. 24. Online status of cuvettes, samples, reagents, worksheet and quality control should be available. 25. Instrument should be compatible with LIS (bidirectional) for online computerization of patient reports. 26. Instrument should have facility to collect both solid and liquid waste for disposal. 27. Online branded UPS with minimum 30 mins backup to be provided with analyzer. 28. Water consumption should be minimal and system using no external water connection will be proffered. 29. Instrument should have extensive test menu including thyroid, infertility, cardiac with latest essential parameters viz. Vitamin D, AMH, Cancer Markers Testing. 30. Instrument should have CE & USFDA certificate and should be enclose with the bid. 31. Company should quote cost of reagents; controls calibration other frequently used spare parts in financial bid that shall be freezed for minimum 3 years. 32. All specifications should be mentioned in original brochure & letter head of the company. 33. Firm should provide calibration and calibration certificates once in a year free of cost during guarantee period as per NABL guidelines. 34. Firm should mention pre installation requirements in technical bid.

		35. One standard pack size start up reagents kit with control and calibration should be supplied along with equipment at the time of installation. 36. Company should have local service engineer, such declaration required on letter head.
12	Power Drill	**Drilling & reaming hand piece (1 no.)** • Should have selection of drilling and reaming within same handpiece with appropriate adaptors for drilling, cutting and reaming as standard attachment. • Should have high power motor, maintenance and lubrication free, with hi tech electronic technology. • Should have fine control single and dual trigger with forward /reverse, oscillation and safe mode lock. • Should have variable speed control on the handpiece. • Should have ideal positive coupling to suit angular position for various attachments. • Should have tools less attachment insertion. • Should have an option to use with battery pack and battery eliminator. • Should have egronomically designed pistol grip hand piece with 4mm cannulation • Should have fully autoclavable hand piece with variable option except battery pack. **Sagittal saw hand piece: qty 01** • Should have two speed controls with standard and fast mode. Free speed of 0- 12000 cycles per minute. • Microprocessor controlled hand piece can be calibrate for the consistence performance. • Saw noise level should not more than 89 db • Weight of hand piece with battery should be not more than 3.5 lbs • Blade mount should be adjustable to different angles with 360 degree rotation • Should have tool less mounting of accessories • Should have DC brush less motor • Should be autoclavable • Should have safe mode • No lubrication require for life time • Hand piece should be made of metallic alloys • 4 saw blades for total knee arthroplasty should be supplied **Battery Charger (1 no.)** • 110-240 AC Volts charger should have the feature to check the charge status for particular battery. • Should have capability to read the battery voltage with inbuilt Voltmeter. • Should have indicators to know the status for charging cycle and indication with alarm. • Should be capable to charge at least 2 batteries at a time. • Should have auto cutoff function to prevent battery from overcharging. **Lid for hand piece: (01 no.)** • Should have positive locking mechanism of lid to ensure a sterile environment. • Lid should be with leak- proof seal.

		• Should have funnel for easy and safe insertion of battery pack. • Should be autoclavable. • Should be simple & positive lever lock for connecting battery adaptor with basic handpiece. **Battery Pack (2 no.)** • Should have powerful li-lion/ Ni Mh& Ni Cd battery with life of minimum 300 charging cycles. • Running time should be of minimum 15 minutes. • Maximum charging time 90 minutes or less. • Lifting hook should be provided for easily insertion/ removal. • Should have in built over charge protection for safety. **Drilling attachment (01 no's)** • Should have maximum RPM 1200 – on load • Should have torque @ 3 Nm • Should be capable to hold drill bit 0 to 6mm • Should have cannulation of 4mm • Weight should not be more than 350gms • Autoclvable • An extra key for Jacob chuck should be supplied **Reaming attachment (01 no's)** • Should have maximum RPM 400 or more • Should have torque @ 10 Nm • Should have cannulation of 4mm • Weight should not be more than 450gms • Autoclvable **Wire driving attachment (01 no's)** • Output RPM should be more then 1200 • Should be capable to hold wire range 1.0 to 3.0 mm • Wire holding method should be simple lever type – front loading • Weight should not be more than 450gms. **Autoclaving case (1 no's)** • Should have autoclavable box for headpiece and attachment. **Consumable & spares** • Prices of battery pack, battery adaptor, funnel, saw blades and oil spray should also be quoted separately as consumables. • The manufacturing company must have their service center in India and the regional service support. Such declaration shall be provided on manufacturer's letterhead. • The equipment should be USFDA approved
13	Automated Bacterial Identification and	**General:** • Tender is invited from reputed original manufacture on their authorized agents/ dealers only. • Company should ensure uninterrupted supply of consumables for the next 10 years. • Custom clearance, Transport to the laboratory and commissioning/ installation shall be the responsibility of the supplier/ firm. All necessary cables, wires and accessories required for installation of the equipment and instruction manual of the instrument should be provided. **Technical:** • The system should be US FDA certified, latest product of the company. • The system must work on colorimetric/ fluorometry technique for identification and susceptibility testing.

	Sensitivity Detection System	• The system must have capacity to accommodate at least 40- 50 tests (either ID and/or AST tests), at any time, there should be individual card entry ID/AST with minimal steps for sample preparation. • The system should have bar code scanning system for test card identification and specimen number entry with LED technology. • The system must have separate cards for identification & antibiotic susceptibility testing of both gram positive and gram negative aerobic bacteria. • Inbuilt or separate system for ID and AST of anaerobic bacteria, fastidious organism and fungal pathogens must be provided. • The identification should based on oxidation – reduction indicator and turbidometric growth detection with at least 1000 reference phenotypes as per CLSI phenotypic characterization. • The system must provide antibiotic susceptibility testing reports in the form of MIC values by estimating true MIC by true double dilution method in line with latest CLSI guideline. • The system should provide highest discrimination between species. • The waste generated from the system should be small, completely sealed & safety disposed as it is. • The software must have capability for workflow management, data storage, test quality control management, test result validation capability and ability to detect antibiotic resistant bacteria along with ability to alert to any unusual resistance mechanism. • The system must have the ability to check the quality of test results and stop for validation by microbiologist. • It should be fully automated, walk away system, complete in itself without need of additional reagents/ tests done manually. If additional reagents are required supply detail including cost and preparation time. • Results for both ID/ AST should be rapid for which mean time should be mentioned by the firm. • The system should have inbuilt automated incubation with every 10 -20 minutes reading inside the machine. • The system should work on 220 volts with or without transformer which should be provided by the firm. • The system should be supplied with all required furniture and online 3 KVA or suitable UPS with minimum 2 hours backup for working/ installation. • The system should be supplied with diagnostic kit for 100 tests with all required accessories, reagents and consumables for identification and antimicrobial sensitivity testing for each gram positive bacteria, gram negative aerobic and anaerobic bacteria, fastidious organisms and fungi for demonstration and standardization of the system. • The firm must submit pre –installation requisite along with tender document. • Information regarding installation in India and satisfactory service and maintenance must be provided with all the details for verification. • Service and maintenance must be provided on the site of installation within 24-48 hours. • The company must ensure proper demonstration and training to the hospital staff / technicians at the site of installation.

		• All required consumables and reagents costs should also be quoted with tender. • Validation to be done by the firm. • The system should be supplied in a complete system with all accessories like pipettes, densitometer, hardwares like computer, high quality printer etc. and required software. • The system should be supplied with one densitometer (extra to the essential accessory) and one electric bacteriological loop sterilizers. • The system should have upgradable (should be done free of cost by the firm, during life of the equipment, as and when release by the manufacturer) expert advanced software or database for maintaining consistency of Id/Sensi results, analyzing the raw data and provide detailed interpretive results. • System should be supplied with high end database management system which can be integrated to HIS/LIS. **Note:** The availability of any required technical feature of the quoted equipment as indicated should be carefully and authentically answered with valid proof in the form of printed broachers etc. Any default in this matter will attract rejection of the tender along with forfeiture corresponding EMD.
14	High End Anesthesia work station	• Compact and modular three gas anaesthesia workstation with an integrated ventilator for adult to infants and integrated airway monitor for airway pressures and volume. • The machine should be suitable for low and minimal flow anaesthesia with compliance compensation of breathing circuit. Fresh gas flow compensation. • The machine should have 2/3 drawers. • Anesthesia machine, ventilator, vaporizer &monitor should be manufactured by same company and should be USFDA approved. • The system should have up to 1 hrs. Battery backup. **Gas delivery system** • Should have pin index yokes for oxygen 02 nos. & nitrous oxide 02 nos. Besides separate connection for central gas supply for oxygen, nitrous oxide and air. • The machine should have pressure gauges for cylinders & central supply lines mounted on front of anesthesia machine for better visibility. The gas connections should be non –interchangeable. • Automatic cut off of N_2 O by oxygen pressure failure. • Hypoxic guard for linear regulation of minimal oxygen concentration at 21% - 30% volume and must ensure a minimum oxygen flow of 200 ml at low fresh gas flow. • Audible and visual oxygen failure alarm. • Emergency oxygen flush at 30 -70 L/min. By passing the vaporizer. **Flow Meter** Settings of air, N_2 O and O_2 . Cascade flow meters. Auxilary flow meter should be standard. **Vaporizer** • Machine should have possibility to mount two quick mount type vaporizer for easy interchange ability, and safety. • Should be provided with a temperature/ pressure compensated and flow independent vaporizer isoflourane and sevoflourane (two vaporizer)

		Breathing System • Should have fresh gas flow semi closed circle absorber system. • Should have adjustable pressure relief valve from 5 to 75 mbr. • Should have change over from spontaneous to bag ventilation with single step. • Should have optimized absorber canister approx. 1.5 Ltr with bypass option. • Should have an external fresh gas outlet for connecting Magill & Brain's circuit separately. **Anaesthesia Ventilator** • Electronically controlled electrically or pneumatically driven ventilator with selectable waveforms display. Touch screen display size should be at least 8". • Modes: Volume controlled, Manual / spont, pressure controlled ventilation, SIMV & PS and PS. • Tidal volume: 20- 1500 ml. • PEEP: 0-20 mbar. • Breathing frequency : 4-60 BPM • I:E ratio : 4:1 to 1:4 • Inspiratory pause: 0-50% of Ti • Flow 1 to 50 1/min, FIO2 21% to 100% • Integrated monitor the electronic monitoring and display of following parameters ➢ Expiratory tidal volume ➢ Expiratory minute volume ➢ PEEP, peak & mean and plateau air way pressure ➢ Frequency ➢ Wave form display for airway pressure **Alarm limits & alarms** Adjustable high/ low limits with audio and visual alarms for the following: ➢ Minute volume ➢ Airway pressure (high & low pressure alarm) ➢ Insp oxygen concentration ➢ Audio power supply fails alarm. ➢ Fail to cycle warning. **Patient monitor** • Modular monitor should be suitable for adult, paediatric neonatal patients monitoring in fixed environment. • Should have touch screen colored minimum 8 channels of waveforms with minimum 19" display. • Battery backup for the base unit should be 1 hour. • Should have automatic graphic and tabular trending of all monitored parameters as standard. • Should have event recall minimum up to 50 events, graphical and tabular trends, drug dose calculations, alarm logs. • Should have minimum 5 lead ECG, NIBP, MasimoSpO2 , IBP's ,2 Temp & AGM (Anaesthesia Gas Monitoring) as standard with cautery filter. • Should have arrhythmia and ST segment depression detection, user's selectable alarm range for different parameters. • Should have BIS monitoring. The firm should supply with each machine: • 5 lead ECG cables – 02 nos. • SpO2 finger sensor with extra cable (2 probe adult & 01 pead)

		• Skin temperature probe- 01 no. • Rectal/ Esophegal temperature probe 01 no. • Adult and ped. NIBP hose set with cuff – 02 nos. • Anaesthetic gas module with 100 sampling lines. • IBP reusable cable for 2 IBP and 10 pcs disposable transducers. Firm should have service setup in Rajasthan. The bidder must submit at least 3 user satisfactory certificates from central / state government institute/ hospitals of the quoted model. This is certified that above specification are general and not pertaining to any particular firm/ company.

Group - B

1	Laparoscopic Set (US FDA)	**SPECIFICATIONS OF FULL HD 3 CHIP ENDO VISION SYSTEM – 1 SET** **Full High Definition Camera Head and Console Qty -1 Each** The system should have following features: • It should have pure digital signal with high definition video of 1280X 1024 (min.) native or more. • Resolution and progressive scan technology both on camera head and console. • It should be compatible with aspect ratio of or 16:9 • The system should have optical/ digital zoom to enhance the quality of image size & cross specialty standardization of the camera system, regardless of the telescope used. • Integrated gain / shutter / enhancement with automatic brightness control. • Video outputs : two DVI, one SVHS • The system should automatically optimize all settings. The system should be ready to use as soon as it is connected to the camera control unit. • The system should be menu driven, thus allowing the surgeon to program the camera head functions as per the surgical needs and requirement. • The system should have the facility of attaching additional 18/24 mm couplar. **Technical specifications:** • Chip set : 3 chip camera • Image system : 1/3" progressive scan CCD/CMOS based • Pixels : 1280X 1024 pixels per chip (min) • Camera head weight: 150-250 gms. • AGC : Microprocessor controlled • Signal – to - noise ratio : 65 – 75 db • Video output : s- video signal Digital video interface • Power supply : 100-240 VAC, 50/60 HZ **High Resolution Medical Grade LED Monitor Qty 01** The system should have: • Hi definition colored monitor 26" flat panel LED monitor • PAL system compatible • Composite , s- video and DVI inputs • Compact & lightweight design • Resolution over 1100 lines • Native resolution 1920X 1200 dots • 16 million display colors

- Maximum pixel clock of 170 MHz

LED Light Source Qty 01

The system should have:

220 volts, 300 watts

- Light engine: Red, Green & Blue LED's
- Increased patient safety & added protection in OR with safelight technology
- Intuitive sample user interface with LCD touch screen standby mode
- Single port universal jaw assembly to adapt any make of fiber optic cable

Technical specifications:

- Light engine : red, green & blue LED's
- Light outlets : 1
- Light intensity adjustment continuously adjustable from 0 to 100% manually

Fiber optic light cable Qty- 1

Size should be diameter > 5.5 mm, length > 160cm

Insufflator : 20 lt. Qty -1

- 20 liter of high flow & having central display
- Internal leakage detection capability
- Having internal venting system for safety
- Microprocessor controlled & software driven for upgradeability
- Soft approach pressure control for safe recovery of abdominal pressure
- Unit should include silicone reusable tubing, Hose & Yoke and filter set

Note:-

1. Entire endovision system should be of one manufacturer, including trolley.
2. Only medical grade USFDA approved products to be quoted.
3. Company should have local service engineer, such declaration is required on letter head.

Hand Instruments for Laproscopic Surgery

Endoscope Qty – 01 each

- Wide angle full screen, forward – Oblique and lateral scope
- Optimal centre –to – edge resolution for enhanced picture quality
- Angle of view : 30° and 0 degree
- Diameter 10mm
- Length around 300mm
- Scratch resistance sapphire quoted tip lens

	Laproscopic hand instruments & accessories	
SNo.	**Description**	**Qty.**
1	Trocar, Pyramidal Tip , 11mm	3
2	11mm cannula, automatic valve, stop cock, without Trocar	3
3	Trocar, Pyramidal Tip , 5.5mm	3
4	5.5mm cannula, automatic valve, stop cock, without Trocar	3
5	120mm Veress Needle	2
6	Reducer, 12.5/11mm -5.5 mm	2
7	Babcock Grasper 5 mm 30-33 cm long	1
8	Serrated , Fenestrated Grasper 5 mm 30-33 cm long	1

		9	Paddle Babcock Grasper 5 mm 30-33 cm long	2
		10	Maryland Dissector 5 mm 30-33 cm long	2
		11	Curved Kelly Dissector 5 mm 30-33 cm long	1
		12	Allis Grasper (Double row of teeth) 5 mm 30-33 cm long	1
		13	Bowel Grasper 5 mm 30-33 cm long	1
		14	Curved Metzenbaum Scissors(long jaw) 5 mm 30-33 cm long	1
		15	Hook scissors 5 mm 30-33 cm long	1
		16	L – Tip Probe	1
		17	Spatula Tip Probe	1
		18	Single Action Claw 10mm 30-33 cm long	1
		19	Biopsy Spoon 10mm 30-33 cm long	1
		20	5mm Bipolar Fenestrated Forceps with Ring Handle	1
		21	Reusable Bipolar Cable (Fits Valley Labs)	1
		22	Reusable Monopolar Cable (Fits Valley Labs)	1
		23	10 mm Clip- Applying Forceps,Ethicon ML (compatible with Ethicon LC 300 or LT 300/LT400	1
		24	5mm Knot pusher	1
		25	Replacement sealing caps for 5.5 mm cannulas (kit of 5)	20
		26	Replacement Inner seal for 5.5and 8 mm cannulas	5
		27	Replacement sealing caps for 11 mm cannulas (kit of 5)	20
		28	Replacement Inner seal for 11and 12.5 mm cannulas	5
		29	Suction/ Irrigation Instruments 5mm Fur p102	1
		30	5 mm Aspiration needle, 33 cm long , 17 gauge needle	1
		31	Needleholder Holder Handle	1
		32	Curved Left Needleholder	1
		33	Endo Vision Trolley	1

Note:-

1. Entire system should be of one manufacturer, including trolley.
2. Only medical grade USFDA approved products to be quoted.
3. Company should have local service engineer, such declaration is required on letter head.

2	Operating Microscope for Opthalmology	Should be with following features- • From reputed imported make. • Compatible imported weight supported floor stand. • Motorized continuously apochromatic zoom magnification changer, foot control. • Focusing: motorized, foot control. • Facility of changing the inclination angle of the micro scope over coarse and fine range. • 150 degree or more inclinable eye pieces. • Apochromatic optics with f = 175 – 200 • IPD adjustment via knob from 55 mm – 75 mm or more. • 10X wide field eye pieces with magnetic coupling (+/- power adjustment up to 6.0 D) • Foot pad control which can be programmed for on & off, focus, zoom, x-y coupling, illumination. • Auto light shut off in standby mode. • XY coupling travel range: max 61mmx 61mm, foot control automatic re-centering with a push button. • High stereobase for best 3D perception and depth of field management system for optimal depth perception.

		• Red reflex enhancer and stereo co axial illumination. • Retina protection filters for both UV and infra-red. • Halogen light source. • Floor stand with heavy base. Stand should have touch screen LCD display for control of all functions. • Stereo Co observer system of original manufacturer. • Beam splitter • Onsite installation by service engineers at no extra cost. • After sales service within 48 hrs. with penalty clause as per ESIC norms • May require demonstration before final approval. • Accessories – 1. Caps two set extra 2. Spare bulbs (12) 3. Compatible online UPS with 30 minutes backing

EMPLOYEES' STATE INSURANCE CORPORATION
MODEL HOSPITAL
(ISO 9001:2008 Certified)
LAXMI NAGAR, AJMER ROAD, JAIPUR–302006
Email: ms-jaipur.rj@esic.in & esicmhstorejpr@gmail.com
Website: www.esichospitals.gov.in; www.esic.nic.in
Telephone No: 0141-2223579; 2228040 Fax: 0141-2223381

No: 152/ESIC MH/Store/300 Bed Hosp.Equp./16-17 Dated: 11.10.2017

Annexure: V

Invitation of E-Tender for procurement of Hospital Equipment

TECHNICAL BID

1		Name of firm and type of firm		
2	a	Full postal address		
	b	Cell Phone No.		
	c	Telephone No.		
	d	Email ID.		
	e	Fax No.		
3		Name and address of your Bankers stating the name in which the account stands	Name of Bank	
			Name of Branch	
			A/C No. & Type	
			IFSC Code No.	
			MICR Number	
4		Are you in the list of approved contractors of any other organization/ institutions, if any give details		
5		Any other information which you consider necessary to furnish		

Compulsory scanned copy of documents to be uploaded:

S.No.	Documents	Uploaded (Yes/No.)
1	EMD Value: Rs._____; DD No._____; Dated :__.__.____)	
2	Original Tender Document signed all the pages.	
3	Manufacturer's Authorization Certificate (As per Annexure-III) in case Bid is submitted by Authorized Agents/dealer.	
4	Rate certificate indicating that they have not supplied the said item to any individual, Govt. or private institution at the rate lowers than the quoted rate.	
5	Authorization Certificate from the manufacturer that spares and any other miscellaneous items **(as applicable)** of the item quoted will be freely available for at least five years after expiry of warranty/guarantee period. (As per Annexure-III)	
6	Authorization Certificate from the Principal/Manufacturer that they will be solely responsible for maintenance of items and during guarantee/warranty and AMC/CMC period even when the Agent is changed during this period.	
7	Undertaking on Non Judicial Stamped paper of Rs.100/-(One Hundred Only) (As per Annexure II)	
8	Compliance certificate of any standard as mentioned in the specifications	
9	Copy of Firm's Registration Certificate.	
10	Catalogue of quoted machine with complete specification	
11	Copy of attested GST and PAN card	
12	Complete local Jaipur Address & Telephone Number of the Authorized Service Center.	
12	Undertaking of warranty of Equipment	
13	Turn over certificate of issued by a chartered accountant for previous three financial years individually.	

Date:

Place:

Signature of the Tenderer/Bidder

EMPLOYEES' STATE INSURANCE CORPORATION
MODEL HOSPITAL
(ISO 9001:2008 Certified)
LAXMI NAGAR, AJMER ROAD, JAIPUR–302006
Email: ms-jaipur.rj@esic.in & esicmhstorejpr@gmail.com
Website: www.esichospitals.gov.in; www.esic.nic.in
Telephone No: 0141-2223579; 2228040 Fax: 0141-2223381

No: 152/ESIC MH/Store/300 Bed Hosp.Equp./16-17 Dated: 11.10.2017

Annexure: VI

Invitation of E-Tender for procurement of Hospital Equipment

For Group –A & B

FORMAT FOR FINANCIAL BID FOR _____ (Name of Item)

S.No.	Particulars of quoted Equipment	Rate per unit	Qty	Final Rate= Unit Price+ CMC for 5 years
1	Name of Equipment			
	Model and of Make of quoted Equipment			
2	GST as applicable@___			
3	CMC for 5 years after expiry of warranty			

Date:

Place:

Signature of Tenderer with Address & Seal

Note:

- Tenderer should enclose the list with unit price of spare parts which may require after expiry of warranty.

Signature of Tenderer with Address & Seal

Important Instructions for Bidders

All bidders/contractors are required to procure Class-IIIB Digital Signature Certificate (DSC) with Both DSC Components i.e. Signing & Encryption to participate in the e-Tenders.

Bidder should get registered at https://esictenders.eproc.in.

Bidders can contact our Helpdesk at https://esictenders.eproc.in/html/support.asp

Bidder needs to submit Bid Processing Fee charges of Rs. 2495/- (non-refundable) in the form of Demand Draft from any scheduled bank, in favour of M/s. C1 India Pvt. Ltd. payable at New Delhi (or in any other form as acceptable by C1 India pvt. Ltd.) for participating in the Tender.

Along with the Demand Draft, Bidder needs to send a covering Letter mentioning about Payment Details, Company Name, Address, User ID and Payment towards ESIC Bid Processing Fees (Mention the Tender ID and Tender Title).

The payment should reach at the below mentioned address, at least one day before the due date and time of Bid Submission:

Kind Attn:

Mr. MohitChauhan
C1 India Pvt. Ltd.
301, Gulf Petro Chem Building, 1st Floor,
Udyog Vihar, Phase-2, Gurgaon, Haryana- 122015.

Note: Bid Processing Fee will be approved only after the receipt of Payment.