



**EMPLOYEES' STATE INSURANCE
CORPORATION MODEL HOSPITAL
(ISO 9001:2008 Certified)**

LAXMI NAGAR, AJMER ROAD, JAIPUR-302006

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No: 152/ESIC MH/Store/300 Bed Hosp.Equip./16-17

Dated: 11.10.2017

Single Bid Tender form for Hospital Equipment Items

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

(Table-1)

S.No.	Name of Equipment	Quantity	EMD (Rupees)
1	Goniometer- Steel	1	25
2	Fibre optic cable	1	75
3	Digital Weighing Machine Adult	9	900
4	Sterlizer (Boiler)	1	100
5	Infantometer	1	100
6	Sterilization boxes (2x5 of different sizes)	10	1000
7	Nebulizer Machine	11	1375
8	BP Apparatus LED	15	1875
9	Dressing Drum Small	14	1750
10	Automatic X-Ray Film Developer	1	125
11	Fetal Doppler	4	500
12	Dressing Drum Medium	11	1650
13	Hot plate	2	400
14	Dressing Drum Large	16	4000
15	Spot Light	6	1500
16	Neonatal Weighing Machine	3	750
17	B.P. Instrument with Stand	2	500
18	Vacuum Cleaner	2	500
19	Diagnostic Set- oto cum ophthalmoscope (2 in 1)	4	1000
20	Unichannel Micropipettes	10	2500
21	Electric needle destroyer	2	500
22	Static Bicycle	1	325
23	Blood Mixer (Rotator)	3	1050
24	Ultraviolet Chamber for sterilization	1	400
25	Dental Autoclave	1	500
26	Mobile Lamp for Labour Table	2	1000
27	Formalin Vapour Sterilizer	1	500
28	Lead Aprons	10	5000
29	Lead Screen without Glass	2	1200
30	Rowing Machine cum Sliding Seat	1	600
31	Infra Red Rays Lamp	1	700
32	Suction Machine 1/4 HP	4	3000
33	Suction Machine 1/2 HP	9	6750
34	Water Bath	2	1500
35	Fibre Optic Light Source	1	750
36	Gauze (Cotton Role) Cutter	1	750

37	Electric Plaster cutting saw	3	2550
38	VDRL Shaker/Plate Rotator	3	3000
39	Electronic Weighing Machine 3 in 1	2	2000
40	Ventuse suction machine with cups	1	1250
41	Wet Cautery	1	1250
42	Pneumatic tourniquet	3	3750
43	Vortex mixer	2	2500
44	Syringe Infusion Pump	16	24000
45	Syringe Infusion Pump (Pediatrics)	02	3000
46	IOPA or Dental X-Ray Machine with Mobile Stand	1	1500
47	Fogger machine	3	4500
48	LED Phototherapy Unit	2	3000
49	Open Care System	4	6000
50	Ultra Sound Thermy Unit	1	1500
51	Serological Water Bath	1	1750
52	Fumigation machine	1	1750
53	Electrosurgical Generator for LEEP	1	2000
54	Vital Signs Monitor	2	4000
55	Neonatal Resuscitation Trolley	3	6000
56	Magnetic stirrer with hot plate	1	2000
57	Microfuge machine	1	2000
58	Oxygen Concentrator	9	20250
59	Binocular Microscope (Pathology)	4	10000
60	Micromotor	1	2500
61	Emergency Crash Cart	2	5000
62	Motorized Operating Table	2	5000
63	Mobile OT Light	1	2500
64	CardioTocoGraphy (CTG)	1	3000
65	Pulse oxymeter	2	6000
66	Refrigerator 400 litre	4	13000
67	Centrifugal Machine Squire type	2	6500
68	Nerve stimulator	1	3750
69	Multipara Pulse oximeter Hand Model	14	56000
70	Obstetric Labour Table	2	8000
71	Patient warming system	2	8000
72	Hot air oven	1	4000
73	Pan Electronic weighing balance	1	4000
74	Shortwave Diathermy	1	4200
75	Multi Behaviour Therapy (MBT)	1	4500
76	Semi Auto Coagulation Analyzer (Single Channel)	1	4500
77	Binocular Microscopes (Microbiology)	2	9000
78	Video Colposcope with Electrical Zoom Capability	1	5000
79	Rapid autoclave	1	5000
80	Vertical Autoclave	1	6000
81	Radio-visiography (RVG) Unit with CPU and Desktop	1	7500
82	Hip Spica Table with Timer	1	7500
83	Deep Freezer (-20 degree C)	1	7500

84	Tissue homogenizer	1	7500
85	Water purification system	1	8500
86	Video Laryngoscope	1	8750
87	Bi/PAP Non Invasive Ventilator	2	20000
88	Spirometer	1	10000
89	BOD incubator	2	22000
90	Multipara Physiological Monitor with EtCO2	5	62500
91	Defibrillator with ECG	4	50000
92	Anesthesia Monitor System	3	37500
93	Laminar airflow	2	25000
94	Biofeed Back	1	15000
95	Minidrill	1	15000
96	Air Drill	1	15000
97	Non-refrigerated centrifuge machine	2	30000
98	Cryosurgery Equipment	1	20000
99	Fully automated ELISA plate reader	1	22500
100	Fully automated ELISA plate washer	1	22500
101	LED digital trinocular compound microscope with 3D stage and USB camera with phase contrast and dark field attachment	1	22500
102	CBC Haematoanalyzer- 3 part differential	1	25000
103	Automatic Remote controlled with Radiolucent top Operation Table	2	75000
104	Cautery Machine	2	50000
105	OT Table with four segments translucent top with orthopedic attachment (Fracture table acceptable with C-Arm)	1	20000

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	24.10.2017 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	15.11.2017 at 02.30pm
Earnest Money Deposit (in the form of Demand Draft/Banker's Cheque)	As mentioned in Table: 01
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 a Single Bid Document. Only Serial No. 1 to 105).
- C.** Each and every page of the Tender Document 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.
- D. One bidder/supplier cannot represent more than one manufacturer or quote on their behalf in a particular tender at the same time.**
- E. TENDER BID SHOULD INCLUDE THE 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. EMD is to be submitted in terms of the Number of Items being quoted & same may be submitted by using a Single Demand Draft by each Bidder.
- ii) Technical details of the quoted items complying to the tender specifications must be enclosed, duly supported by printed brochures. Original Catalogue of Make and Model of each Equipment Items quoted should be submitted.
- iii) All quoted Items must carry a Warranty/Guarantee period for **minimum 3 (Three) years.**

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

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

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

vii) Local (Jaipur) address of the Authorized Service Centre of the Manufacturer with Telephone Nos. / fax no.

viii) 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.

ix) The rates of CMC for a period of five years after expiry of warranty must also be quoted. The same shall be considered for financial comparison of the Final Cost of Item.

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

G. The quantity of items to be purchased **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 be uploaded 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. Late Submission of EMD will summarily disqualify the bidder.**

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.

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 **“Rate 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 deemed to 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 of the tender 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 to any other supplier. 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 total bill. The hospital authority shall be entitled to forfeit the Security Deposit or any part thereof 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 the “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 expiry of Warranty/ Guaranty Period (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 from 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. No Compensation whatsoever will be paid to any bidder.

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 sole discretion of the hospital authority and the difference in prices will be recovered 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) during Warranty/ CMC period. 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(five) 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.

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 hereby 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 the 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/ default 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)

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/ consumables and any other miscellaneous
items (As applicable) to the items quoted will be freely available for at least five years after expiry of
warranty/guarantee period.

The above Authorized agent will not Sublet the same to any other firm.

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)

Hospital Equipment Items with their Technical Specifications**Group - A**

S. No.	Name of Hospital Equipment	Specifications
1	Goniometer- Steel	Made of Steel; 360°
2	Fibre optic cable	<ol style="list-style-type: none"> 1. Fibre optic cable 4.8mm, 230 cm, 2. Autoclavable 3. CE marked.
3	Digital Weighing Machine Adult	<ol style="list-style-type: none"> 1. Capacity : 160 kg 2. Accuracy : 100 g 3. Platter Size: 350 mm x 300 mm (Tolerance +/- 10%) 4. The scale should be made up of heavy duty. Cast iron structure Platform with powder coated frames. 5. The Electronic Adult Weighing Scale should incorporate following features for user-friendly convenience. 6. Display: LED / LCD: 5 digits with min. height 14 mm. 7. TARE facility with zero function. 8. HOLD function to lock the weight. 9. MEMORY function, to keep the last weight in memory. 10. The Scale should have inbuilt rechargeable battery backup for minimum of 8 hrs. 11. Should operate on mains 220-240Vac, 50 Hz single phase. 12. The Scale should be as per BIS specifications. The scale should have ISI mark.
4	Sterilizer (Boiler)	<ol style="list-style-type: none"> 1. Electrically heated boiler stainless steel construction 2. Fully automatic temperature control by the thermostat 3. Single level fitting of lid and tray. 4. Complete with Safety cable, plug and socket and perforated tray 5. Unit filled with heat resistant wiring and thermal cut out. 6. All handles and grips shall be insulated. 7. Fitted with drain out connection 8. Power supply 220-240V, AC 50Hz 9. Approx size: 510mm (L) x 250mm (W) x 150mm (D) 10. Unit shall confirm to IS:5022:1989, IS: 6911-1992 & IS: 4159-1983.
5	Infantometer	<ol style="list-style-type: none"> 1. Made of Acrylic Plates 2. Length 45cm base and 45cm sliding central panel 3. Breath- 30cm 4. Foldable foot and Head Plates 5. Accuracy- 0.1cm

		6. Measurable Length- 45 to 90cm																												
6	Sterilization boxes	Having all sizes - 270 x 185 x 50 mm 300 x 210 x 72 mm 400 x 150 x 100 mm 450 x 180 x 100 mm 700 x 300 x 150 mm Two numbers of each.																												
7	Nebulizer Machine	<table border="1"> <tr> <td>Power</td> <td>AC 230V, 50Hz/60Hz</td> </tr> <tr> <td>Current</td> <td>0.8A</td> </tr> <tr> <td>Medication capacity</td> <td>5ml</td> </tr> <tr> <td>Particle size</td> <td>0.5 to 10/μm</td> </tr> <tr> <td>Mmad</td> <td>4/μm</td> </tr> <tr> <td>Sound level</td> <td>Around 60 dBA</td> </tr> <tr> <td>Maximum medication capacity</td> <td>13ml (cc)</td> </tr> <tr> <td>Average nebulization rate</td> <td>Minimum 0.2ml/min</td> </tr> <tr> <td>Compressor pressure range</td> <td>30 to 36 Psi (210 to 250 Kpa/2, 1 to 2.5bar)</td> </tr> <tr> <td>Operating Pressure range</td> <td>8 to 16 Psi (50 to 100KPa/0.5 toi.O bar)</td> </tr> <tr> <td>Liter flow range</td> <td>6-8 lpm</td> </tr> <tr> <td>Operating temperature range</td> <td>10°C to 40°C (50°F to 104°F)</td> </tr> <tr> <td>Operating Humidity range</td> <td>10 to 95% RH</td> </tr> <tr> <td>Box dimension (l x w x h)</td> <td>280 x 190 x 100mm</td> </tr> </table>	Power	AC 230V, 50Hz/60Hz	Current	0.8A	Medication capacity	5ml	Particle size	0.5 to 10/ μ m	Mmad	4/ μ m	Sound level	Around 60 dBA	Maximum medication capacity	13ml (cc)	Average nebulization rate	Minimum 0.2ml/min	Compressor pressure range	30 to 36 Psi (210 to 250 Kpa/2, 1 to 2.5bar)	Operating Pressure range	8 to 16 Psi (50 to 100KPa/0.5 toi.O bar)	Liter flow range	6-8 lpm	Operating temperature range	10°C to 40°C (50°F to 104°F)	Operating Humidity range	10 to 95% RH	Box dimension (l x w x h)	280 x 190 x 100mm
Power	AC 230V, 50Hz/60Hz																													
Current	0.8A																													
Medication capacity	5ml																													
Particle size	0.5 to 10/ μ m																													
Mmad	4/ μ m																													
Sound level	Around 60 dBA																													
Maximum medication capacity	13ml (cc)																													
Average nebulization rate	Minimum 0.2ml/min																													
Compressor pressure range	30 to 36 Psi (210 to 250 Kpa/2, 1 to 2.5bar)																													
Operating Pressure range	8 to 16 Psi (50 to 100KPa/0.5 toi.O bar)																													
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Operating Humidity range	10 to 95% RH																													
Box dimension (l x w x h)	280 x 190 x 100mm																													
8	BP Apparatus LED	<ol style="list-style-type: none"> 1. Should be of reputed CE/ISI make 2. Pressure measurement range of 0-300mm of Hg and Pulse rate/minute 3. Gives accurate measurement of BP\pm3mm Hg 4. Adult cuff size 14.5cm x 51cm 5. Smooth inflation and deflation 6. Operates on AA size batteries and AC adaptor 7. Power saver/Autocut off mode when not in use for more than 3 minutes 8. Mercury Free 																												
9	Dressing Drum Small	<ol style="list-style-type: none"> 1. 9" x 9" inch size 2. Heavy gauze stainless steel 3. Autoclavable 4. Reputed Make 																												
10	Automatic X-Ray Film Developer	<ol style="list-style-type: none"> 1. Dimension (in cm): 40 x 63 x 25 2. For Automatically Developing, fixing, washing and drying X-ray Films. 3. Voltage- 230V, Frequency- 50Hz, Duty rating- 100% 4. Total output- 400W 5. Process time: 5min 																												

		6. Bath temperature: 24°C
11	Fetal Doppler	<ol style="list-style-type: none"> 1. Complete system with a permanently fixed 2 MHz transducer. 2. Handy and attractive ABS cabinet. 3. Highly sensitive ultrasonic beam permits hearing the foetal heart beats clearly from 10-12 week of pregnancy. 4. Foetal heart beats can be heard either by inbuilt speaker or earphone. 5. Main as well as battery operated.
12	Dressing Drum Medium	<ol style="list-style-type: none"> 1. 9" x 11" inch size 2. Heavy gauze stainless steel 3. Autoclavable 4. Reputed Make
13	Hot plate	<p>Features:</p> <ol style="list-style-type: none"> 1. Corrosion resistant 2. Electric shock proof 3. Beneficial for laboratory work 4. Body made of MS Powder coated 5. Fitted with Thermostatic control 6. Supplied with stirrer <p>Specification:</p> <ol style="list-style-type: none"> 1. Type: Rectangular 2. Size: 30" x 11" 3. Temperature: upto 350°C 4. Heating plate: Cast Iron 5. Controller: Energy Regulator 6. Power Supply: 220/230 Volts, 50Hz 7. Digital temperature display 8. Support Stand
14	Dressing Drum Large	<ol style="list-style-type: none"> 1. 15" x 12" inch size 2. Heavy gauze stainless steel 3. Autoclavable 4. Reputed Make

15	Spot Light	<table border="1" data-bbox="662 246 1340 728"> <tr> <td>Illumination intensity @50cm</td> <td>More than 10,000 Lux</td> </tr> <tr> <td>Arm</td> <td>Double Joint or Flexible Goose Neck or Articulated</td> </tr> <tr> <td>Transformer</td> <td>Integrated</td> </tr> <tr> <td>No. of LEDs</td> <td>1</td> </tr> <tr> <td>LEDs lifetime</td> <td>Minimum 50,000 hrs</td> </tr> <tr> <td>Control unit</td> <td>SMPS</td> </tr> <tr> <td>Volt</td> <td>12V</td> </tr> <tr> <td>Watt</td> <td>50W</td> </tr> <tr> <td>Power Supply</td> <td>220 V / 50 Hz. AC</td> </tr> <tr> <td>Movable/Fixed</td> <td>Movable; Mounted on 5 heavy duty caster wheels</td> </tr> </table> <p>Should be of reputed make and CE/USFDA marked</p>	Illumination intensity @50cm	More than 10,000 Lux	Arm	Double Joint or Flexible Goose Neck or Articulated	Transformer	Integrated	No. of LEDs	1	LEDs lifetime	Minimum 50,000 hrs	Control unit	SMPS	Volt	12V	Watt	50W	Power Supply	220 V / 50 Hz. AC	Movable/Fixed	Movable; Mounted on 5 heavy duty caster wheels
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16	Neonatal Weighing Machine	<ol style="list-style-type: none"> 1. Weight range upto 0-20kg 2. Table Top light and portable 3. Large digital display 4. Built in rechargeable battery 5. Acrylic (non metallic) baby tray 6. Dimension of tray approx length 550mm x width 300mm x minimum depth 100mm. 7. Tray should preferably bear the marking of scale for measurement of newborn length. It should be smooth non porous, easy to clean. 8. Resolution of ± 2 grams 9. Accuracy should be ± 5grams 10. Freeze reading display 11. "Tare" Facility should be provided 12. Measurement should not change with the position of baby 13. Certification: BIS certified product 																				
17	B.P. Instrument with Stand	<ol style="list-style-type: none"> 1. Should be of reputed CE/ISI make 2. Pressure measurement range of 0-300mm of Hg and Pulse rate/minute 3. Gives accurate measurement of BP± 3mm Hg 4. Adult cuff size 14.5cm x 51cm 5. Smooth inflation and deflation 6. Operates on AA size batteries and AC adaptor 7. Power saver/Autocut off mode when not in use for more than 3 minutes 8. Mercury Free 9. Mounted on good quality height adjustable stand. 																				
18	Vacuum Cleaner	<p><u>Main Features:</u></p> <ol style="list-style-type: none"> 1. Should be of canister type 2. Cord length should be of 5 meters 3. Blower should be present. <p><u>Dust collection:</u></p>																				

		<ol style="list-style-type: none"> 1. Type of bag should be paper bag and washable canvas bag 2. Dust bag capacity should be 3 litres 3. Should have dust level indicator, air filtration, dust mite in activator <p><u>Cleaning attachments</u></p> <ol style="list-style-type: none"> 1. Should have an extension tube. 2. Type of jar-spray jar and demisting vaporize. 3. Type of nozzles- crevice nozzle and upholstery nozzle 4. Type of brushes- swivel brush/floor/carpet brush <p><u>Additional Features</u></p> <ol style="list-style-type: none"> 1. Should have a varying suction power, auto cord winder, foot operated on/off switch <p><u>Power requirement</u></p> <ol style="list-style-type: none"> 1. Running current 5 amp, power consumption 1400, suction pressure 2450 mm H₂O, Voltage 230V AC/50Hz Motor 2. Motor speed 32000 RPM <p><u>Dimension</u></p> <ol style="list-style-type: none"> 1. 550 x 185 x 2 mm 2. Weight 6.6 kg approx <p><u>More features</u></p> <ol style="list-style-type: none"> 1. Flexi cleaner set
19	Diagnostic Set (Oto cum Ophthalmoscope; 2 in 1)	<ol style="list-style-type: none"> A. 1 Otoscope Head, 3 reusable metal aural specula of 2.4, 3.2 and 4mm B. 1 Ophthalmoscope head, 24 diopter compensation lens C. Nasal speculum expandable, bend arm illuminator, 2 laryngeal mirrors no.3 and 4, tongue blade holder, replacement lamp, packed in hard protective ABS case having the facility of AC adaptor/battery or both
20	Unichannel Micropipettes	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. ISO 8655/ NABL & CE-IVD certified, compatible with universal tips. 2. Calibration facility should be available on site. 3. Should be autoclavable and chemically resistant.

		<ol style="list-style-type: none"> 4. Should have maintenance-free nose cones. 5. Should have two-button operation, user-friendly, user-tested, single-handed and reduce operating forces. 6. RNA DNA free, low retention, sterilized filter tips of size 10µl, 20µl, 100µl, 200 µl & 1000µl in pack size of 10 packs of 96x10 box of tips of each size must be given along with 4 sets of pipette stands for each 4 pipettes and 6 pipettes. 7. Pipette will be selected only after proper demonstration in the Department. 8. Volume:2 sets of each- 0.5-10 µl, 5-50 µl, 10-100 µl, 20-200 µl & 100-1000 µl. <p>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</p>
21	Electric Needle Destroyer	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Should be lightweight, portable and compact. 2. Housing should be moulded type, shock proof and made of ABS Plastic /Stainless Steel 304 Grade. 3. Should provide a removable discharge tray made for easy disposal of syringe hubs. 4. Should have the provision to burn the needle & to cut the syringe tips. 5. Should have a High Carbon Steel Cutter to cut syringes. 6. Should be able to destroy needles of type up to 18G. 7. Should be able to destroy minimum of 5 injection needles on continuous operation. 8. Should have a Heavy Duty Transformer and works on 220-240 Vac/50 Hzelectric supply. 9. Should have a Power On/Off switch and an indication for power. 10. Should be properly insulated for the protection from electrical hazard. 11. Should provide with 5 Nos fuse of adequate rating. <p>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</p>

22	Static Bicycle	With Good kind of Resistance														
23	Blood Mixer (Rotator)	<table border="1"> <tr> <td data-bbox="662 315 853 365">Roller size</td> <td data-bbox="853 315 1492 365">4 Nos. X230mm Lg.</td> </tr> <tr> <td data-bbox="662 365 853 414">Mains input</td> <td data-bbox="853 365 1492 414">230v,50Hz/ 110v,60Hz AC</td> </tr> <tr> <td data-bbox="662 414 853 463">RPM</td> <td data-bbox="853 414 1492 463">30 RPM-36 RPM</td> </tr> <tr> <td data-bbox="662 463 853 512">Mixing time</td> <td data-bbox="853 463 1492 512">15 to 20 minutes</td> </tr> <tr> <td data-bbox="662 512 853 562">weight</td> <td data-bbox="853 512 1492 562">2.0 kg.net</td> </tr> <tr> <td data-bbox="662 562 853 667">Capacity</td> <td data-bbox="853 562 1492 667">Vaccutainers 6 nos.(of-4ml) or bulb of 5ml X 15 Nos.</td> </tr> <tr> <td data-bbox="662 667 853 716"></td> <td data-bbox="853 667 1492 716"></td> </tr> </table>	Roller size	4 Nos. X230mm Lg.	Mains input	230v,50Hz/ 110v,60Hz AC	RPM	30 RPM-36 RPM	Mixing time	15 to 20 minutes	weight	2.0 kg.net	Capacity	Vaccutainers 6 nos.(of-4ml) or bulb of 5ml X 15 Nos.		
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24	Ultraviolet Chamber for sterilization	<ol style="list-style-type: none"> 1. Made up of high quality stainless steel. 2. Equipped with Phillips & Osram UV tube 3. Door switch Inter lock to prevent emission of UV light as soon as the chamber is opened. 4. Ultraviolet tube- 15W 5. Chamber Size 23" x 12" x 8" 6. Minimum No. of trays- 12 7. Door closing mechanism- Magnetic gasket. 														
25	Dental Autoclave	<ol style="list-style-type: none"> 1. 17-25 litres tank, Type/Class-B 2. Table top front- Loading Type 3. Fully Automatic Microprocessor base control with LCD display 4. Chamber made up of thick S.S. Sheet. 5. Auto drain of water & condensation of steam, Alarming system, highly accurate motor pressure sensor, should have tone buzzer. 6. CE and FDA approved 														
26	Mobile Lamp for Labour Table	<ol style="list-style-type: none"> 1. Fiber Dome Dia 19 "each fitted with parabolic glass reflectors to provide high quality shadoless illumination. 2. Fitted with best quality special diffusers. 3. Illumination 90,000 LUX at one meter distance ± 10 %. 4. Color temp. -4200 K. 5. 360° rotation at both angles in ceiling light. 6. Fitted with imported halogen bulb 24 V -150W light is also provided with stand by bulb. 7. Fully spring balanced technology fitted with detachable & sterilazable handle. 8. Heavy duty step down transformer. 9. C.V.T. (optional). 														

		10. Provision to change the bulb by single push button system.(without any tool & delay)
27	Formalin Vapour Sterilizer	<ol style="list-style-type: none"> 1. It should be size of not less than 26"x 8"x 9" and 21" x 8"x 9" 2. It should be made of plastic with three trays 3. It should be easy to handle on the top 4. Door on the side for closing. 5. Lock on the front near the door 6. Supporting stick on the side of lock door to open
28	Lead Aprons	<ol style="list-style-type: none"> 1. State of the art Zero Lead aprons filed tungsten, antimony, bismuth etc. in place of lead with 0.5 mm lead equivalence. 2. Should be minimum 20% light weight compared to conventional lead aprons. 3. State of the art Zero Lead Thyroid sheet/ guard filled tungsten, antimony, bismuth etc. in place of lead with 0.5 mm lead equivalence. 4. Eye glasses: <ol style="list-style-type: none"> a) Protective metal frame with side shields. b) Front with 0.5mm lead equivalence. c) Side with 0.35mm lead equivalence. d) Should be light weight. 5. Covering fabric of washable nature. 6. Apron should have drop- off facility. 7. Apron stand should be provided for all sets. 8. Should be CE certified. 9. Should be ISO -9001-2000 certified. 10. BARC/ AERB approved.
29	Lead Screen without Glass	<p>Lead Barrier with Four Wheel</p> <ol style="list-style-type: none"> 1. Wheel Mounted 2. Size of Lead Shield: 6 x 3 sq.feet 3. Lead Equilant: 2mm
30	Rowing Machine Cum Sliding Seat	For Arm and Leg Exercises with Good Quality of Springs
31	Infra-Red Rays Lamp	Stand mounted, Floor Model, 150 watts, Single Bulb
32	Suction Machine ¼ HP	<ol style="list-style-type: none"> 1. Unit consist of vacuum unit, vacuum gauge and release valve, set of two (2) suction bottles with lids, suction system filters and traps 2. A safety device or cut out should be provided if fluid level becomes too great. 3. On a trolley with heavy duty antistatic castors. 4. All the parts which come in contact with the fluid must be removable for sterilization. 5. The unit should be explosion proof and should not produce sparks and should be mounted such a way as to produce minimum vibrations. 6. The vacuum gauge used should be of Bourden type &

		<p>should be easily visible during the use of the machine. A vacuum control valve should be provided in the same manner.</p> <p>7. The apparatus should be type 1, ISI marked or its equivalent international standards for electrical safety, construction and performance requirements.</p> <p>Technical specifications</p> <ol style="list-style-type: none"> 1. Top: Stainless Steel 2. Motor: 0.25 H.P. with Rotary Pump 3. Power input: 220 V AC $\pm 10\%$; 50Hz 4. Jars: Wide Mouthed, Autoclavable, 2litre capacity, 2 in nos. Each made of polycarbonate with ABS Lid with float (Overflow control device). The jars should be graduated (in cc levels) 5. Vacuum: Down to -700mm Hg ± 10mm Hg with full range control 6. Power supply: 220V $\pm 10\%$, 50 Hz A/C, a mains On/Off switch and suitable indicators for mains on and vacuum on should be provided. <p>Standard Accessories</p> <ol style="list-style-type: none"> 1. 10mm & 5mm bore tube translucent non collapsible two mtrs long each with adaptors. MTP canula- Karman Type stainless steel, seamless, size- 10mm, 8mm, 6mm & 4m
33	Suction Machine $\frac{1}{2}$ HP	<ol style="list-style-type: none"> 1. Unit consist of vacuum unit, vacuum gauge and release valve, set of two (2) suction bottles with lids, suction system filters and traps 2. A safety device or cut out should be provided if fluid level becomes too great. 3. On a trolley with heavy duty antistatic castors. 4. All the parts which come in contact with the fluid must be removable for sterilization. 5. The unit should be explosion proof and should not produce sparks and should be mounted such a way as to produce minimum vibrations. 6. The vacuum gauge used should be of Bourden type & should be easily visible during the use of the machine. A vacuum control valve should be provided in the same manner. 7. The apparatus should be type 1, ISI marked or its equivalent international standards for electrical safety, construction and performance requirements. <p>Technical specifications</p> <ol style="list-style-type: none"> 1. Top: Stainless Steel 2. Motor: 0.5 H.P. with Rotary Pump 3. Power input: 220 V AC $\pm 10\%$; 50Hz 4. Jars: Wide Mouthed, Autoclavable, 2litre capacity, 2 in nos. Each made of polycarbonate with ABS Lid with float (Overflow control device). The jars should be graduated (in cc levels) 5. Vacuum: Down to -700mm Hg ± 10mm Hg with full range

		<p>control</p> <p>6. Power supply: 220V \pm 10%, 50 Hz A/C, a mains On/Off switch and suitable indicators for mains on and vacuum on should be provided.</p> <p>Standard Accessories</p> <p>1. 10mm & 5mm bore tube translucent non collapsible two mtrs long each with adaptors.</p> <p>MTP canula- Karman Type stainless steel, seamless, size- 10mm, 8mm, 6mm & 4mm.</p>
34	Water Bath	<ol style="list-style-type: none"> 1. Digital water bath having 18-20 liter capacity. 2. Digital thermometer display 0 to 100 degree. 3. Temperature control ambient to 99 degree, sensitivity +/- 0.1. 4. Temperature control increment 01 degree. 5. Over temperature safety regulation. 6. Rust resistant material. 7. Insulated cover. 8. 230 v/50 Hz. 9. Double walled construction with inner chamber made up S.S. sheet and outer surface of M.S. duly enamel painted finish. 10. The gaps as present between walls come filled with special grenade glass wool to avoid thermal losses. 11. The inner chamber fitted with immersion type heating element comes covered with perforated removable diffuser tray for superior performance. 12. Size inside chamber 300*300*175 mm(suitable for 4 racks)
35	Fibre Optic Light Source	<ol style="list-style-type: none"> 1. Fibre light source (ENDOSOL II) 2. 2 outlets. 3. 250 watt. Halogen lamp. 4. Variable light intensity 5. Heat absorbing filters.
36	Gauze (Cotton Role) Cutter	<ol style="list-style-type: none"> 1. Gauze cutting machine with S.S. Table. 2. Fitted on S.S. Table. 3. Gauze cutting blade with sharpening system. 4. Auto cut on high load. 5. Must be convenient to cut gauze cotton role. 6. Table size – 900mm x 600mm x 750mm
37	Electric Plaster cutting saw	<ol style="list-style-type: none"> 1. Plaster saw to be suitable for all casts, i.e. POP/ Synthetic. 2. Should be maintenance free. 3. Should incorporate state of the art Brushless dc motor for excellent performance & speed. 4. Should be ergonomically designed for minimum operator

		<p>fatigue.</p> <ol style="list-style-type: none"> 5. Low weight (less than 800 gms) & should have proper balancing to reduce wrist fatigue. 6. Should be compact in size. 7. Should have facility for depth adjustment. 8. Should have optional facility to incorporate vacuum suction unit. 9. Should operate on 230V AC. 10. Should have low noise & reduced vibration. 11. Should have high performance blades for all types of application. 12. Instrument should have international standard / safety requirement CE marked. 13. Company should be ISO certified.
38	VDRL Shaker/Plate Rotator	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. For rotating slides for VDRL tests 2. Large plate form size: $\geq 300 \times 300$ mm spring holder which can accommodate concave slides etc. 3. Shaking speed 180 rpm continuously adjustable with regulation 4. Amplitude 10 mm. 5. Digital timer can be set from 0 to 30 minutes for control of shaking duration with 1 minute interval. 6. Micro controller based programme. 7. Brush less motor. 8. Interchangeable platform. 9. LED display. 10. Power Supply: 220 - 240 volts, 50 cycles, single phase with complete chord and plug. <p>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</p>
39	Electronic Weighting Machine (3 in 1)	<ol style="list-style-type: none"> 1. Capacity: 100 kg 2. Accuracy ± 5 gm 3. Least count 00 grams 4. Three separate platform for weighing of each like newborn and infants, small children and big children. Body made up of heavy duty stainless steel. 5. Durable, detachable, mouldable baby tray for weighing an infant 6. Folding seat for weighing a small child/toddler.

		<p>7. Sturdy platform to weighing older child</p> <p>8. Baby tray safe</p> <p>9. High accurate red coloured Digital weighing display for strain free reading</p> <p>10. Hold facility for accurate weight of a moving child</p> <p>11. Zeroing facility should be present</p> <p>12. Dimension of machine: Base- 16” x 16”; Height- 40”</p> <p>13. Operating voltage: 230-50hz AC</p> <p>14. Certification: BIS certified product</p>
40	Ventuse suction machine with cups	<p>Features:</p> <ul style="list-style-type: none"> - Suitable working for surgical suction and liposuction. - Max vacuum reachable within a few seconds, with no need for maintenance. - Device suitable for surgical suction and liposuction. <p>Technical Parameters</p> <p>Motor:-Oilless and maintenance-free piston pump</p> <p>Power Feeding: 230V-50 Hz</p> <p>ISO 10079-1Classification: HIGH VACUUM / HIGH FLOW</p> <p>Max free air flow rate: 60 l/min</p> <p>Max Vacuum (adjustable): -0.90 Bar -90 kPa -675 mmHg</p> <p>Noise level: 51,7dBA</p> <p>Power consumption: 230VA</p> <p>Fuse:1 xF4A250V</p> <p>Duty cycle: Non-stop operation</p> <p>Weight: 13 Kg</p> <p>Size: 46x85x42 cm</p> <p>Years of Warranty: 3years</p> <p>Certification : CE or USFDA</p> <p>Supreme Silicon Venteuse Cup Features</p> <ul style="list-style-type: none"> • Supreme Silicone Venteuse • 100 % silicone medical product • This vacuum suction cup could assist and shorten second stage of labor in occipital delivery • Minimize the risk of Traumas, Cephalohematoma and Forceps delivery • The soft suction cup allows for easy insertion and facilitate an excellent vacuum seal • The soft cup can protect and decrease possible danger of damaging the fetus' head • Black guideline is designed for positioning reference • The handle and valve assemblies are manufactured of chrome plated brass and can be replaced • The shaft has three molded ridges to facilitate a firm grip • This vacuum suction cup is designed to withstand appropriate repeated use and cleaning procedures.
		<p>Features of Wet Field Bipolar Coagulator:</p> <ol style="list-style-type: none"> 1. Foot controlled system. 2. Forceps, Erasers and Cables should be Autoclavable.

41	Wet cautery	<ol style="list-style-type: none">3. Digital display for easy setting4. Imported forceps and Erasers that can be attached.5. Audible tone to let surgeon know the unit is activated.6. Should be compact in size, elegant look and portable benefits.7. Solid state circuit system to ensure safety to procedures to delicate tissue involved for cataract, retinal and IOL Surgery8. Can be used with irrigation (Wet-field) or in the bloody field itself, to locate the bleeder easier to enable the surgeon to have better visualization.
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42	Pneumatic tourniquet	<ol style="list-style-type: none"> 1. Dual cuffs: Dual port, colour coded. 2. Dual displays with integrated time recording. 3. Should have ambient air. 4. Microprocessor controlled. 5. Self-check calibration. 6. Audible and visual alarms in case of power failure. 7. Internal pump for fast inflation time. 8. Positive locking connectors. 9. Should alert the user of the cuff status when attempt is made to deflate the machine. 10. Cuff lockout safety feature. 11. Cuff pressure: Adjustable 100 to 450 mm Hg. 12. Preset resolution: 10 mmHg 13. Clock elapsed time: 0.000 – 3.000 hours 14. Display : a. 3 digit – Pre – selected pressure b. 3 digit clock elapsed time c. Green led for inflate & Red led for deflate 15. Alarms: <ol style="list-style-type: none"> a. Cuff pressure is out of range for more than 30 sec. after initial start. b. Cuff pressure is out of range for more than 11 sec. during operation. c. After elapsed time of 30 min & every 30 min. thereafter d. 3 beeps – 9 min, prior to set time e. In Deflate mode – cuff pressure is higher than 20 mm Hg for 15 sec after Deflate mode is activated. 16. Dual compressors to allow for independent control over cuffs “one” and cuff “two” 17. Dedicated pressure line and pressure measurement line for cuff “one” and cuff “two” which should be designed to provide most accurate readings. 18. Utilization of two independent cuffs during one surgical procedure to allow bilateral knee procedures. 19. Battery backup of 2 hrs, so that it can be used during patient transport and to be used during a power failure. No interruption in the procedure while the cuff is inflated – Automatically transfers power to the battery. 20. Mounted on stand with castor wheels. 21. Seven sizes of cuffs from “8 to 42” of cylindrical cuffs should meet individual requirements of thin and fat patient for arm and thigh cuffs. 22. Cuffs should be autoclavable. 23. Instrument should be CE certified.
43	Vortex Mixer	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and

		<p>training to the hospital staff / technicians.</p> <ol style="list-style-type: none"> 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Mixer should be a robustly constructed, small footprint, low profile, ergonomic design and anti- sliding feet which absorb the vibration highest electric protection degree. 2. Should have brushless DC motor. 3. Orbit diameter: ≥ 4 mm. 4. Max RPM: ≥ 4000 (adjustable) with pulse mode. 5. Should have speed and time digital display and controller. 6. Loading Capacity: ≥ 0.5 kg 7. Should have on/off and touch three way switch. 8. Timer setting: 0-60 minutes (adjustable) 9. Should have inbuilt imbalance detection and noise free operation. 10. Should be provided with attachment for microtubes, microplate and flasks. 11. Should have universal power supply. <p>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</p>
44	Syringe Infusion Pump	<ol style="list-style-type: none"> 1. The flow rate programmable from 0.1 to 200ml/hr more in 0.1ml/hr with user selectable flow set rate option 2. Bolous rate should be programmable to 400-500 ml/hr with infusion vol. display. 3. Display of Drug Name with provision of memorizing names by operator. 4. Keep vein open (KVO) must be available. 0.1 ml/hr to set rate if lower than 1.0ml 5. Selected occlusion pressure, selectable from 300/500/900 mm of Hg 6. Must work on commonly available ISI/CE/FDA approved 20, 50ml syringe with accuracy of min. of $\pm 2\%$ 7. Alarm must be provided with wrong loading such as flang out of slot. 8. Must be ISI or ISO certified. 9. The unit must be capable of operating continuously in ambient temp. of 10-40°; relative humidity 15-90% 10. Power input should be 220-240 AC, 50Hz 11. Flow rate range <ol style="list-style-type: none"> a) 0.1-60ml/hr (10ml Syringe) b) 0.1-100ml/hr (20ml Syringe) c) 0.1-120ml/hr (30ml Syringe) d) 0.1-200 ml/hr (50ml Syringe) 12. Infusion Vol. Limit – 60ml programmable every 0.1 ml; Bolous rate 1000ml/hr 13. Weight of instrument approx. 2.5kg

		14. Dimensions: L265mm x H110mm x W150mm
45	Syringe Infusion Pump (Pediatrics)	<p>Syringe Size: 10ml, 20ml, 30ml, 50ml. Automatic syringe size detection. Acceptance of any brand of disposable syringes</p> <p>Flow Rate: 0.1 to 200ml/hr (10ml syringe); 0.1 to 300ml/hr (20ml syringe) in 0.1ml increment. Transfusion rate/volume setting display</p> <p>Accuracy: 1% to 3% Bubble remover.</p> <p>Volume infused: 0.1 to 999.9ml with reset function display</p> <p>Occlusion Detection: Three pressure level selectable</p> <p>Alarm: Occlusion, end of infusion, low battery, near empty syringe, syringe dislodged, syringe error, start time.</p> <p>Battery: 12V, Rechargeable.</p> <p>Operations: 2 to 4 hours (typical) at 10ml/hr (with new, fully charged battery)</p> <p>Certification: USFDA/CE/BIS certified product</p>
46	IOPA or Dental X-Ray Machine with Mobile Stand	<ol style="list-style-type: none"> 1. Electro medical Equipment class 1 type B 2. 230V-monphase 50/60 Hz; Power absorption 230V,1.4KV; Resistance 0.5 Ω; high voltage 60-70KV; Anode current 4-8 mA; Focal spot 0.7mm, Total filtration equivalent to 2mmAl to 70Kv, Leakage Radiation 0.25mSv/hr; Long come focus to tip Distance 31cm (12"); Exposure time can be set from 0.02 to 3.2 seconds 3. Radiography generator can be used for both conventional & Digital X-Ray 4. Generator compatible with all digital imaging system. 5. Should meet AERB standard
47	Fogger Machine	<ol style="list-style-type: none"> 1) Should be lightweight, portable, user friendly 2) Should offer excellent control of droplet size and generate fine droplets 3) Fumigation an disinfection of OT, ICU, ICCU of the hospital 4) Due to high operational efficiency this should save lot of time and labour 5) Tank capacity should be 5 lit 6) Weight should be around 5 kg 7) Particle size should be ULV 3-15 microns 8) Area capacity should be 15000cuft 9) It should be provided with timer 10) Any disinfectant should be used in it 11) It should be ISO or ISI certified.
48	LED Phototherapy Unit	<ol style="list-style-type: none"> 1. Item should be able to deliver irradiance of more than 45 micro watts/cm²/nm between 400-500 nm wave length range at 45cm from the light unit with adjustable intensity (high, medium/low) 2. Unit have the features of Time totalizer- (a) for LED running time; (b) therapy timer for the treatment time

		<ol style="list-style-type: none"> 3. Examination lamp to provide normal light 4. Cooling fan to dissipate the heat created by LED's 5. Alarms for: a. cooling fan failure; b. temperature unit in light exceeds 50 degree centigrade; c. internal supply voltage is high; d. internal supply voltage is low; e. current consumption of LED's is not normal 6. Mobility: 3 swivel caster with brakes. 7. Certification: USFDA/CE/BIS certified product
49	Open Care System	<ol style="list-style-type: none"> 1. Temperature resistant design of overhead unit to keep exterior surface cool even after continuous use. 2. Should be microprocessor controlled with servo and manual modes of operation. 3. Should have two displays, one for patient temperature and one for set temperature. 4. Heater output should be displayed in bar graph. 5. Manual mode can adjust heater output 10 to 100% 6. In manual mode 30 minutes timer cut off to be switch off excess of heat. 7. Should give alarm after thirty minutes of operation in manual mode should have with timer facility. 8. Should have integral bed with external tilting facility at both end up to 30 degree. Bed area should be at least 730 mm x 520mm 9. Bed area should have acrylic side panel, collapsible and good visibility to see through the panel from distance. 10. Bed access panel should not have any gap. Should be bent at radius to avoid sharp edges. 11. Bed should be about 80 to 90 cm from the floor and 80 cm from the heat source. 12. Swiveling of heater box to make space for X ray machine without disturbing the baby 13. High intensity halogen observation light 14. Should have thermistor based temperature with accuracy of +/- 0.1 degree centigrade. 15. Should have a memory backup to restore the set modes and temperature automatically in the event of power failure 16. Should have facility to lock the key board to avoid unwanted user errors 17. Should have interchangeable probe without requiring to be calibrated. 18. Should give alarm when probe is disconnected from the machine. 19. Should have automatic heater cut off when ambient temperature crosses 39 degree centigrade in manual mode 20. Should have automatic heater cut off after 30 minutes in manual mode. 21. Should have compressive alarms temperature low, temp high, probe failure. 22. Set temperature rand 30 degree to 38.3 degree centigrade

		<p>23. Should have casters 4 in number of 4 inches</p> <p>24. Should have operating instruction on panel itself.</p> <p>25. Certification: US FDA/CE/BIS certified product.</p>
50	Ultra Sound Therymy Unit	Pulsed & Continuous Solid state; 1 and 3 MHz
51	Serological Water Bath	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Digital serological water bath, ISI marked as per IS-6593. 2. Inner chamber size: Approx. 320mmX300mmX150mm 3. Racks:Minimum 4 racks 4. Body: Inner chamber-corrosion resistant S.S.304 and outer-MS with powder coating. 5. Should have electronic digital push indicator cum controller. 6. Temperature range:Ambient to ≥ 80 °C with ± 0.5 °C temperature stability. 7. Accuracy:± 1°C (fluctuation should be less than 1°C) 8. Power supply: 210-230 V, 50 Hz 9. Provided with inbuilt or external automatic voltage stabilizer. <p>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</p>
52	Fumigation Machine	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians.

		<p>4. Service and maintenance must be provided on the site of installation.</p> <p>Technical:</p> <ol style="list-style-type: none"> 1. It should be ISO or ISI or CE certified. 2. Body: Light weight, portable, easy to use and clean. 3. Solution Tank and Lid: Engg. plastics tank set with ≥ 5 Ltr capacity 4. Nozzle Assembly: High shear, non-rotating, non-clogging, vortex design, Engg. Plastic. 5. Space treatment: $\geq 10,000$ cu ft. 6. Aerosols: Should be of submicron size (non wetting) 7. Timer: Minimum 5-60 min adjustment, electronic. 8. Precision metering system: 0 - ≥ 200 ml/minute, flow control valves. 9. Any disinfectant should be used in it. 10. Should be provided with air-filters to prevent from dust. 11. Power Supply: 220 V AC, 50 or 60 Hz. <p>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</p>
53	Electrosurgical Generator for LEEP	<ol style="list-style-type: none"> 1. Voltage : 115V/230V 2. Frequency : 45-65 Hz 3. Current : 6.25 Amps/4.5Amps 4. Low frequency leakage : < 100 micro amps. <p>Electrical output:</p> <ol style="list-style-type: none"> a. Frequency :450 Khz b. Cut/Blend power : 6-99 watts @ 500 ohm load c. Activation type : Hand switch/foot switch d. Smoke evacuation. <p>Accessories:</p> <ol style="list-style-type: none"> a. Ball electrodes. b. Macro needle type electrodes c. Loops
54	Vital Sign Monitor	<ol style="list-style-type: none"> 1. Patient monitor system should be of modular type and capable of monitoring neonatal and pediatric patient. 2. Essential measurement parameters such as SPO2, TEMP, PR/HR, RESP and NIBP 3. Lightweight, compact, portable 4. Monitor should have 15inch independent flat panel display 5. SpO2 pulse- tone modulation (pitch Tone) 6. Built-in rechargeable Lithium ion Battery 7. Network capacity 8. Powerful data storage capacity (96 hours graphic and tabular trends of all parameters, 500 NIBP measurement, 60 alarm events) 9. Should be supplied with necessary accessories for neonates & children

		<ul style="list-style-type: none"> a. NIBP- Neonatal, 2 size per monitor b. SpO2 sensor- pediatric sensor with cable and neonatal sensor with cable per monitor c. Temperature: Skin probe d. Other accessories for measurement of all parameters. <p>10. Certification: USFDA/CE/BIS certified product</p>
55	Neonatal Resuscitation Trolley	<p>Neonatal Resuscitation Trolley should consists of : -</p> <ol style="list-style-type: none"> 1. Radiant warmer 2. Bassinet 3. Oxygen with humidifier 4. Suction 5. APGAR Timer <p>1. Radiant warmer:</p> <ul style="list-style-type: none"> • Heating rods in swiveling box. • Heater rotation: +/- 90 degree to the side to facilitate X-Ray procedure. Heater automatically shuts off when in this position • Temperature resistance device of overhead unit to keep exterior surface cool even after continuous use. • Stainless Steel reflector and heater grill for complete cleaning of heater & reflector without any electrical shock hazard. • Heater output 0-540 watt power adjustable from 0-100% in 5% increment. • Air, skin, manual mode servo control • <u>Manual Mode:</u> Heat selection range from zero to 100% in 5% increment flexible unbreakable skin temperature probe. <p>Set point range: 30-38 degree centigrade Skin temp display Temp. Measurement Accuracy of at least +/- 0.3 degree C at 30 to 38 degree centigrade. Temperature display Resolution: +/- 0.1 degree C.</p> <ul style="list-style-type: none"> • Control Panel: <ul style="list-style-type: none"> ➤ Microprocessor based controlled system ➤ Heater output display ➤ Heater output control knobs ➤ Temperature selection mode knobs ➤ Baby control (Servo) mode- 30 to 38 degree C in increment of 0.1 degree Celsius ➤ Dual digital temperature display (Patient & Set temperature) ➤ Mode selector (skin/air) ➤ APGAR Timer- at 1, 5, 10 minutes. ➤ Observation light: 50W, 500 lux at center of mattress. ➤ Wire should easy to clean, long lasting, Teflon coated with silicon rubber sleeve. • Safety Alarms: Skin mode

		<ul style="list-style-type: none"> ➤ Skin temp high (>0.5 degree centigrade of set temp) ➤ Skin temp low (<0.5 degree centigrade of set temp) ➤ Skin temp over range (>38 degree celcius) ➤ Skin probe fail <p>Air mode</p> <ul style="list-style-type: none"> ➤ Air temp high (>0.5 degree centigrade of set temp) ➤ Air temp low (<0.5 degree centigrade of set temp) ➤ Air temperature over range (>38 degree celcius) ➤ Air probe fail <ul style="list-style-type: none"> • Safety high temperature cut of <ul style="list-style-type: none"> ➤ Skin temp > 38 degree celcius ➤ Air Temp > 39 degree celcius ➤ Power fail ➤ Probe failure <p>2. Bassinet:</p> <ul style="list-style-type: none"> • One fixed 3 movable transparent side walls. • Clear, acrylic, collapsible side with locks facility. • Acrylic tray with cushion mattress with head up and down facility • Lower shelves • Mattress size: 462 x 640 x 25.4 mm • Bed to floor height: adjustable (880,950, 1020mm) <p>3. Oxygen with humidifier</p> <ul style="list-style-type: none"> • Oxygen regulator • Flow meter • Humidifier bottle • Option for central oxygen/ cylinder <p>4. Suction</p> <ul style="list-style-type: none"> • Electrically operated slow suction with menometer. <p>5. Essential Attachments</p> <ul style="list-style-type: none"> • Instrument Tray • Pole for infusion pump & IV stand • Whole unit should swivel on 04 wheels with foot operated lock and breaking facility • Each trolley should be equipped with laryngoscope with straight & curved blades size 0 and 1. <p>6. Additional Advantageous features</p> <ul style="list-style-type: none"> • Inbuilt voltage stabilizer • Should be able to run on generator <p>7. Certification: US FDA/CE/BIS certified product.</p>
56	Magnetic Stirrer With Hot Plate	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification.

		<ol style="list-style-type: none"> 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. A Magnetic stirrer with hot plate made up of temp and liquid resistant glass ceramic top. 2. Stirring Volume: ≥ 20 litres 3. Speed: Range 200 - ≥2000 rpm 4. Heating temperature range: Ambient to ≥300°C. 5. Temperature accuracy: ±1°C. 6. Working modes: Fast, gradual, accurate and pulse mode of heating. 7. Automatic slip detection and correction mode. 8. It should be equipped with safety temperature circuit. 9. It should have elevated control panel for protection. 10. It should have large visible display for settings, error indications for warnings and safety. 11. Power Supply: Should include 210-240 V/50-60 Hz <p>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</p>
57	Microfuge Machine	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Bench top micro-centrifuge with 6 tubes X 15 ml fixed angle rotor. 2. Lid safety: auto-locking facility, open only after completion of process. 3. Should have brushless DC motor. 4. Microprocessor controlled acceleration and break.

		<p>5. Maximum RPM/RCF: $\geq 6000\text{RPM}/\geq 3500\text{g}$ adjustable and one switch change from RPM to RCF.</p> <p>6. Automatic imbalance detection.</p> <p>7. Timer: 1-30 min and infinite mode.</p> <p>8. Noise level should be low $<65\text{ db}$.</p> <p>9. Should be provided with adapters for 5 ml tubes.</p> <p>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</p>																																						
58	Oxygen Concentrator	<table border="1"> <tr> <td colspan="2">Weight (Approx)</td> </tr> <tr> <td>Device:</td> <td>15 kg</td> </tr> <tr> <td colspan="2">Dimensions (Approx.)</td> </tr> <tr> <td>Height:</td> <td>23 in (58.4 cm)</td> </tr> <tr> <td>Width:</td> <td>15 in (38.1 cm)</td> </tr> <tr> <td>Depth:</td> <td>9.5 in (24.1 cm)</td> </tr> <tr> <td>Power:</td> <td>115 $\pm 10\%$ VAC; 60Hz 3.2 A; 350 watts</td> </tr> <tr> <td>Oxygen Concentration at 5 LPM</td> <td>93 +/- 3%</td> </tr> <tr> <td>Outlet Pressure:</td> <td>5-8 psi $\pm 10\%$</td> </tr> <tr> <td>Sound Level:</td> <td>45-53 dBA</td> </tr> <tr> <td colspan="2">Operating Conditions:</td> </tr> <tr> <td>Temperature:</td> <td>50°F to 95°F (10°C to 35°C)</td> </tr> <tr> <td>Altitude:</td> <td>0-7500 ft</td> </tr> <tr> <td colspan="2">Storage Conditions:</td> </tr> <tr> <td>Temperature:</td> <td>- 29.2°F to 140°F (- 34°C to 60°C)</td> </tr> <tr> <td>Max. Humidity:</td> <td>95% non-condensing</td> </tr> <tr> <td>Cannula Requirement:</td> <td>Maximum 7 foot long adult standard single lumen oxygen nasal cannula with a maximum 40 ft crushproof extension tubing</td> </tr> <tr> <td>Flow Settings (l/min):</td> <td>0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0</td> </tr> <tr> <td colspan="2">Equipment should have protection from electrical shock</td> </tr> </table>	Weight (Approx)		Device:	15 kg	Dimensions (Approx.)		Height:	23 in (58.4 cm)	Width:	15 in (38.1 cm)	Depth:	9.5 in (24.1 cm)	Power:	115 $\pm 10\%$ VAC; 60Hz 3.2 A; 350 watts	Oxygen Concentration at 5 LPM	93 +/- 3%	Outlet Pressure:	5-8 psi $\pm 10\%$	Sound Level:	45-53 dBA	Operating Conditions:		Temperature:	50°F to 95°F (10°C to 35°C)	Altitude:	0-7500 ft	Storage Conditions:		Temperature:	- 29.2°F to 140°F (- 34°C to 60°C)	Max. Humidity:	95% non-condensing	Cannula Requirement:	Maximum 7 foot long adult standard single lumen oxygen nasal cannula with a maximum 40 ft crushproof extension tubing	Flow Settings (l/min):	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0	Equipment should have protection from electrical shock	
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			allow smooth trawel over an area of 75mmx50mm.
		Illumination	The Microscope is equipped with a high intensity compact light source consisting of 6V-20W halogen lamp, built-in ON/OFF switch and a light intensity regulator. A field diaphragm for Koehler illumination can also be provided. The microscopes an also be used with a plano-concave mirror mounted on a fork under daylight conditions.
		Sub Stage condenser	Bright field condenser Abbe N.A.1.25 with iris diaphragm and swing out filter holder can be moved through Rack and pinion knob.The condenser unit consist high efficiency optical system for optimum utilization of light from low to high magnification. It is interchangeable with professional accessories.
		Eyepiece Tubes	Binocular eyepiece tubes provide bright images,rotatable through 360° inclined at 45° having adjustable dioptric scale from +5 to-5.the gradations are at the intervals of one diopter. The interocular distance is variable from 54mm to 74mm,for convenience of the user.
		Focussuing Knobs	Low mounted concentric coarse& graduated fine focusing knobs control act directly on the stage which is counter balanced and runs on precision ground linear roller bearing to give frictionless motion. The tension of coarse focus control knob can be adjusted through a tightening ring.
		Packing	In mouldedthermocool box or wooden storing cabinet with lock & key.
		Accessories	Vinyl cover,duster,25ml of immersion oil, 100 ml of cleaning solution,cleaning brush,roll of lens paper,filter and operating instruction manual.
		Optional Accessories	Dark-field condenser, stage micrometer, polarizing attachment, micrometer discs, phase contrast equipment, spare objectibes, microphotographic equipment,CCTV etc.
60	Micromotor		<ol style="list-style-type: none"> 1. Speed 3500 rpm. 2. Reverse/forward cutting. 3. Foot switch. 4. Straight hand piece.
61	Emergency Crash Cart		<ol style="list-style-type: none"> 1. Overall dimensions should be W770mm x D620mm x H1160mm. 2. Should be made in ABS Plastic mono-forming top board and "pull out" shelf. 3. Should have a PU mono-forming handle. 4. Should be with a built in central controlled security code locking. 5. Should be made in ABS Plastic with aluminum metal frame. 6. Cart should be light, steady and scratch resistant. 7. Should be equipped with aluminium metal mono-forming drawing board and handle set, hidden drawer fix in the middle, built-in spring coil enable easy operation. 8. Should be three sections of drawer side, non-movable, 2 small, 2 middle and one large drawer. 9. Should be provided with medication bin 10. There should be a side reversed drawer Cardiac Catheter holder, revolving shelf which can hold upto 10Ks weight

		<p>11. Should be 5” polytech castor, quiet, dust-prevention, flexible transportation.</p> <p>12. Should be manufactured by a well-known international brand with CE marking.</p>
62	Motorized Operating Table	<p>1.Movements controlled by foot switch</p> <p>2.Movements should be smooth, with slightest jerk at start and at end</p> <p>3. Adjustable cushioned head rest.</p> <p>4.Length: minimum 6 feet</p> <p>5.Electronic movements:</p> <ol style="list-style-type: none"> a. Up & Down b. Tilting (Forward and Reverse)
63	Mobile OT Light	<p>Mobile OT Light consists of a Lamp head to be around 630mm diameter and incorporating 5 Nos. reflectors of 140mm diameter each using 12V/50W Halogen Lamps – 5Nos. to provide a Lux output of 1,20,000 Lux at a color temperature of 4200 Kelvin with field size of 200mm and mounted on a sturdy mobile base with 4 castors.</p> <p>The Lamp head provided with Sterilizable focusing handle for light and field adjustments. The lamp head balanced by a spring – loaded arm, and an move in all axis in rectangular position to each other and vertical height adjustment and spring arm stroke of around 375mm.</p> <p>The lamp head designed as per international Norms to drive heat to lamp head top surface with top cover fixed with sealing gasket to avoid dust and sterility on the system. The reflectors be provided with color correcting filter glass and diffusers to allow cool white light.</p> <p>Technical Feature:</p> <p>Dome : 1 No.</p> <p>Size of illumination area: 200mm diameter</p> <p>Dome construction: Top cover fitted with sealing gasket to avoid dust collection and maintain sterility.</p> <p>No. of Reflectors : 5</p> <p>Type of Lamp : Halogen Lamps 12V/50W</p> <p>Lux Output : 115000-120000 Lux</p> <p>Color Temperature : 4200°Kelvin</p> <p>Movements : Mobile, Angular, Radial, Axial</p> <p>Input supply : 230V AC 50Hz</p> <p>Output supply : 11 RMS on load at 50Hz</p> <p>Safety Certification : S Mark</p> <p>Equipment to be certified for International Safety Certificate ‘S’ mark (Safety Mark) and manufactured by an ISO 9002 Company.</p> <p>Emergency Power Unit having inbuilt Low Voltage unit with CVT and to be operate from 230V, single phase, 50Hz with automatic changeover from mains to Battery mode (Maintenance Free Sealed Batteries) in the event of Power Failure. Low Voltage Output for Dome provided through CVT</p>

		and Protective Circuits and MCB. The system to have separate indication lamps to indicate operation through Mains/Battery Emergency Backup system.						
64	CardioTocoGraphy (CTG)	<ol style="list-style-type: none"> 1. Continuous monitoring of FHR, TOCO and maternally sensed fetal movements. 2. No need preprinted stationary or thermal paper, only plain paper required. 3. Storage of tachycardia and bradycardia alarm events in the memory. 4. Recording of more than 1800 alarms in real time. 5. Facility to view or to print all alarm events in real time. 6. LCD panel with ON-LINE use friendly alarms and relevant display of patient data such as actual FHR in 8PM, blinking corresponding to each beat, UA in %, alarm message display, no. of alarms recorded, high/low FHR limits, patient ID no and time taken. 7. Memory backup with fast facility. 8. With in-built acoustic stimulator with separate marker on graph. 9. Digitally controlled feather touch key operated volume control. 10. Tested and certified as per IEC 60601.1 safety standards. <table border="1"> <tr> <td>FHR</td> <td> <ol style="list-style-type: none"> 1. Ultrasound sensor: 12 elements Doppler transducer. 2. Ultrasound frequency: 1MHz ($\pm 5\%$) 3. Ultrasound power : < 3m W/cm². 4. BPM range: 60-210bpm 5. Resolution : 1 bpm 6. Accuracy : +bpm/$\pm 1\%$ </td> </tr> <tr> <td>TOCO</td> <td> <ol style="list-style-type: none"> 1. Measurement range: 0-100 relative units. 2. Resolution : 1 count 3. Accuracy : <+5% </td> </tr> <tr> <td>FM</td> <td> <ol style="list-style-type: none"> 1. Push marker 2. Automatic fetal movements detection is optional </td> </tr> </table>	FHR	<ol style="list-style-type: none"> 1. Ultrasound sensor: 12 elements Doppler transducer. 2. Ultrasound frequency: 1MHz ($\pm 5\%$) 3. Ultrasound power : < 3m W/cm². 4. BPM range: 60-210bpm 5. Resolution : 1 bpm 6. Accuracy : +bpm/$\pm 1\%$ 	TOCO	<ol style="list-style-type: none"> 1. Measurement range: 0-100 relative units. 2. Resolution : 1 count 3. Accuracy : <+5% 	FM	<ol style="list-style-type: none"> 1. Push marker 2. Automatic fetal movements detection is optional
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65	Pulse Oxymeter	<p>The pulse oxymeter should have the following provisions required for operation theatres, ICUs, ICCUs and NICUs, ambulances and out-patient rooms</p> <ul style="list-style-type: none"> ✚ LCD display (minimum 4") large digital display of SpO₂ pulse rate and plethysmogram with continuous display of high/low alarm limits pulse strength bar graph ✚ Pulse strength bar graph ✚ Wide range of sensors- finger probe for adult and pediatric. ✚ Mains & Battery operated. Power input: 220 V AC $\pm 10\%$, 50Hz ✚ Compact, portable and easy to set up with minimum 4 hrs battery backup with battery level indicator ✚ SpO₂ – 0-100% Accuracy: $\pm 2\%$, 70-100%; $\pm 3\%$, 50-69% ✚ Pulse rate within 30-250 bpm 						

		<p>Accuracy: $\pm 2\%$ full scale</p> <ul style="list-style-type: none"> ✚ Pulse beep: separately adjustable beep volume (including off), tone frequency varies with the SpO₂ value. ✚ Patient alarm: audible and visible alarm with adjustable volume (including off), audible alarm silence key with following alarm range: <ul style="list-style-type: none"> i) SpO₂ : Low- off 50-99%; High- 50-100% off ii) Pulse rate: Low- off 40-100; High- 70-250 off iii) Should have trend memory for pulse & SpO₂ iv) Following alarms to be included: <ul style="list-style-type: none"> (1) Sensor disconnection (2) Low pulse (3) Low battery ✚ Should have BIS or “CE” marked or US FDA approved ✚ Should submit certificate of relevant IEC safety standards.
66	Refrigerator 400 Ltr.	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Capacity ≥ 400 Lt. 2. Temperature range: $+2$ to $+8^{\circ}\text{C}$. 3. Single transparent dual glass door with key and lock system. 4. Anticorrosive, antimicrobial painted, SS Interior. 5. Number of shelves: ≥ 6 6. Should use CFC free R134A refrigerant. 7. Forced air design instead of regular cold wall for fast temperature equilibration. 8. Frost free or automatic defrost. 9. Self-closing, lockable doors. 10. Should have stabilizer free operation/inbuilt stabilizer or external stabilizer should be provided. 11. Standard wheel (which can be locked) for easy movement 12. LED lamps with less heat exposure for illumination. 13. Power Requirement AC 230-240 V, 50 Hz. 14. Company should have local service centre to provide prompt after sales service. 15. Each refrigerator should be supplied with two glass thermometers.

		<p>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</p>
67	Centrifugal Machine Squire Type	<ol style="list-style-type: none"> 1. Digital speed indicator. 2. Step-less speed regulator. 3. Square model. 4. 0-60 minutes digital countdown timer (R-8C & R-8C DX). 5. Safety lid interlock to prevent cover opening during centrifugation. 6. Press switch for quick acceleration to full speed. 7. Dynamic break for quick deceleration. 8. Imbalance detector with cut off in case of uneven loads. 9. 24 test tube capacity.
68	Nerve Stimulator	<ol style="list-style-type: none"> 1) Dimension: 9.50" x 2.00" x 0.50" 2) Accuracy: ± 30 sec 3) Battery life: 2-4 yrs 4) Should be light and easy to handle 5) Should have easy set up, easy monitoring 6) Should have automatic calibration whenever desirable 7) Should be safe, TOF watch tell you how much pt. is relaxed. About the TOF ratio the display should shows it from 1 to 100 8) It should perform all the stimulation modes in use today. Train of four events, single Twitch (1-0.1 Hz), Double Burst stimulation (3.2 and 3.3), Post tetanic count and Tetanic stimulation (50-100 Hz) 9) Whenever deep block is required (PTC) post Tetanic count should keep in control of relaxation. 10) It should be linked to all customs and conventions, current display in mA. 11) Should be ISO or ISI certified
69	Multipara Pulse Oximeter Hand Model	<p>Monitor: Compact and portable, allowing for uninterrupted monitoring with built-in battery high bright LEDs display of NIBP, SPO2 and pulse rate high resolution color LCD for trend tabular and SPO2 waveforms display adjustable audible and visual alarms. Up to 600 groups NIBP data up to 10 hours suitable for adult, pediatric and neonatal patient.</p> <p>Display: 7 segment LEDs for systolic, diastolic, mean pressures, SPO2 and pulse rate 2.4" color LCD for waveforms, bargraphic, trend and system menu</p> <p>NIBP: Method: Oscillometry Operation modes: Manual/Automatic/STAT</p>

		<p>Auto Measure time: 5~250 minutes adjustable, internal 5 min Measurement range: 10~270mmHg Overpressure protection: Yes Resolution: 1mmHg Alarm: systolic, diastolic and mean SPO2 Measurement range: 0~100% Reolution: 1% Accuracy: 70~100%. A2%, 0~69% unspecified Alarm range: 0~100% Pulse Rate: Range:0~254bpm Resolution: 1bpm Accuracy: iA1 bpm</p>
70	Obstetric Labour Table	<ol style="list-style-type: none"> 1. Three sectional S.S. top delivery bed/Labour table. 2. For Pt.comfort back rest should be adjustable by ratchet. 3. Middle section with "U" cut (especially for Gynae.purpose) should be there. 4. For labour position leg section should slide under main frame or can come back to its original position as and when required. 5. Trendelenburg position should achieve with pneumatic pump system. 6. Should be provided with head & side safety rails (three sides),s.S. hand grips. 7. Three sectional metters, a pair of lithotomy rods with straps & one I.V. road.(Quote cruches optionally also) 8. Sliding S.S. douche tray. 9. Four heavy duty breakable wheels fitted on legs to provide the facility for delivery bed cum labour table. 10. Overall extendable size: 187LX96WX80H cms.
71	Patient Warming System	<ol style="list-style-type: none"> 1. The equipment must be a forced air warmer to deliver effective forced- air patient warming. 2. It should be microprocessor based handy and with accurate temperature sensor system. 3. It should have temperature selection between 32-43 degree Celsius, should have the set temperatures- low, medium and high temperature. 4. The equipment must have ambient setting accessible via front panel to manage patient warming needs. 5. It should have audible and visual alarms in case of over temperature. 6. The noise level must not be greater than 60dBA. 7. It should have efficiency filter of 0.2µm 8. It should have a washable protective hose cover. 9. The equipment should be pole and bed mountable. 10. Each equipment should be supplied with stand. 11. Each equipment to be supplied with 50 Adult and 50 pediatric blankets. Also there must be provision of supplying other variants of blankets including cardiac, surgical access blankets.

		<p>12. Cost of all accessories and disposables to be quoted separately valid for 2 years.</p> <p>13. It should have filter status indicator and filter life should be about 1000 hours.</p> <p>14. Supplier should ensure availability of all kind of blanket such as upper body, under body, lower body for adult and pediatric separately.</p>
72	Hot air oven	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Memmert type ISI marked as per IS-3119. 2. Inner chamber size: 18" X 24" X 18" with 3-4 SS perforated shelves 3. Body: Inner chamber-corrosion resistant S.S.304 and outer-MS with powder coating. 4. Should have digital display with touch buttons for temperature setting, delay time and process time. 5. Should have LED's indicating process/mode. 6. Temperature range: Ambient to 250° C with RTD (PT 100) temperature sensor. 7. Accuracy:±1°C (fluctuation should be less than 1°C) 8. Temperature control: PID based programmable microprocessor. 9. Timer:≥500 min delay and ≥500 processes. 10. Power supply: 210-230 V, 50 Hz 11. Provided with inbuilt or external automatic voltage stabilizer. 12. It should have lock and key feature for prevention of manipulation within system by unauthorized person. 13. Provided preferably with caster lockable wheels. <p>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</p>

73	Pan Electronic Weighing Balance	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Single pan analytical electronic balance with high accuracy for weighing processes. 2. Robust die-cast aluminium casing. 3. Operation should be user friendly multi button keyboard. 4. Balance pan: Steel nickel chrome $\geq 80\text{mm}$ 5. Equipped with a draft shield chamber of $\geq 260\text{mm}$ to eliminate interfering ambient effects. 6. Weighing Range: $\geq 200\text{ g}$ 7. Tare Range subtractive: Full to capacity, $\geq 200\text{ g}$ 8. Readability: 0.1 mg 9. Linearity: $\pm 0.2\text{ milligrams}$ 10. Selectable Weight Units: gm, mg 11. Display: fluorescent 12. Level: Adjustable feet at suitable level. 13. Safety Features: Protection against dust and water, Over-load protection, Chemical - resistant body. 14. Should have wide range of updatable integrated application programmes, 15. Should be provided with rechargeable battery for ≥ 2 hour's continuous operation. 16. Should have facility of density determination of solid, porous and liquid materials 17. Calibration: Automatic time and temperature controlled Internal/external calibration option 18. Power Supply: $210\text{-}240\text{V}/50\text{-}60\text{ Hz}$ <p>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</p>
74	Shortwave Diathermy	500 watts, Disc & Pad, Electrode

75	Multi Behaviour Therapy (MBT)	<p><u>Hardware and Software for “Multi Behaviour Therapy” consisting of:</u></p> <p><u>Features:-</u></p> <p>A combination of sex therapy, brain polarizer, electro sleep and aversion therapy with auto cut off timer</p> <p><u>Accessories</u></p> <ol style="list-style-type: none"> 1. Set Sex therapy Electrodes 2. Set Brain polarizer Electrodes 3. Set Electro sleep Electrodes 4. Set Aversion Therapy Electrodes
76	Semi Auto Coagulation Analyzer (Single Channel)	<ol style="list-style-type: none"> 1. It should be Single Channel Coagulation Semi-Automatic Analyzer. 2. The channel should have 640 nm for clotting tests to remove HIL (Hemolysis, Icteric, Lipemic) interference, and 800 nm for DDimer to remove interference in latex particles. 3. Principle for clotting should be scattered light detection method at 640nm with clotting curve being generated, this plate and printed if required. 4. It should have 5 cuvette incubation position. 5. It should have 5 sample/ reagent position of which 3 numbers should be 37^o c and 2 number at room temperature. 6. 1 reagent position should have magnetic stirrer function. 7. It should have internal graphic thermal printer. 8. It should have a large touch screen for display of calibration, QC data, sample data, programing, setting and running tests. 9. It should have 1 USB point, 1RS 232, 1LAN, power point. 10. It should be able to upgrade software with the help of USB pen – drive. 11. The calibration should have facility to input multi-point calibration data, MNPT and ISI values. 12. It should report in seconds, INR, g/L, Ratio, FEU and %. 13. The settings should have option of sample ID in sequential an custom mode. 14. It should perform all coagulating tests (PT, APTT, FIB, TT, Factors, LA, Protein S), Immunoturb test (DDimer). 15. Company giving the system should market same branded reagents and provide technical support and consumable. 16. The system should have 12QC options per test with L-J facility, display, print and disable/ delete option. 17. 500 nos. single reaction cuvettes should be supplied as slandered accessory. Quote for 100000 cuvettes must be given separately in the commercial bid. 18. Slandered accessories should include USB, pen-drive, Indian power cord, paper rolls, dust cover, reagent holder, stylus, magnetic beds for stirring, small reagent cups. 19. The system should accept RFID data for cuvettes loading.

		<p>20. The test sequence should prompt the sample/ reagent name to add next in each channel, have sensor in channel for detecting sample and reagent addition and automatically do incubation, measuring and rest the channel for next test on removing the tube after result is displayed and printed.</p> <p>21. It should be supported by companies at on-roll service engineer in city Jaipur.</p> <p>22. Test reagents to conduct PT-INR, 200 test reagents should be supplied as complimentary at the time of installation.</p> <p>23. Per test cost should be less than 20 Rs per test (PTINR)</p>
77	Binocular Microscope(Microbiology)	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Body: Should be mechanical & antifungal 2. Stand: Singlemould sturdy stand with anti-rust materials. Extended base with hand rests for enhanced stability and comfort 3. Viewing Bodies: Binocular tube, 30° inclined, 360° rotatable, Inter pupillary distance 50-75 mm 4. Eyepieces: Wide Field focusable paired eyepiece WF 10x/20mm, with foldable eye guard, anti-fungus coating 5. Nosepiece: Reverse angle quadruple nosepiece (Ball bearing type) with click stops and rubber grip, anti-fungus coating 6. Objectives: RP series DIN Infinity Corrected Plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil) with appropriate NA for each. 7. Mechanical Stage: Reckless X-axis, double plate mechanical stage plate size ≥ 140 x 130mm, X/Y travel range ≥ 75 x 50mm. Low drive movement controls. Pre-focusing lever and tension control. Hard coated surface for scratch resistance. 8. Condenser: Sub-stage Abbe condenser NA 1.25 with aspheric lens and iris diaphragm. Rack and pinion movements on stainless steel guides. Day light blue filter provided. 9. Focusing: Co-axial coarse and fine focusing on ball drive

		<p>system for smooth operation.</p> <p>10. Illumination: LED illumination with variable illumination control. Minimum 50,000 hours of LED life with built in ON/OFF switch. Rechargeable Dry Battery Provide 6-8 Hours Battery Backup in case of electricity failure.</p> <p>11. Electrical: Universal input 100V-240V AC, 50/60Hz. Built in voltage stabilizer.</p> <p>12. Packed in Styrofoam box, with operation manual, dust cover, cleaning cloth, power cord, 25 ml of immersion oil, 100 ml of cleaning solution and cleaning brush.</p> <p>13. It should be CE certified.</p> <p>14. Microscopes should be supplied with one Micrometer set of discs and stage for measuring bacteria size.</p> <p>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</p>
78	Video Colposcope with Electrical Zoom Capability	<ol style="list-style-type: none"> 1. Signal processing : digital signal processor 2. AGC/white balance : auto 3. Min. illumination : 2500 lux or 0.2 lux 4. Focus distance : 30 cm to 60 cm 5. Video output signal 6. Light intensity : full milky white 7. Light source : super bright circular set of L.E.D 8. Colour temperature : 6500 K 9. Focus : Auto and manual 10. Green filter : electronic 11. Magnification : 6x to 40 x <p>Accessories</p> <ol style="list-style-type: none"> a. Image capture system b. Printer c. Bivalve speculum d. Vaginal side wall retractor e. Sponge holding forceps f. Long dissecting forceps (at least 20 cm) g. Endocervical speculum h. Endocervical curette i. Cervical punch biopsy forceps j. Long artery straight forceps k. Tray l. Vaginal wall retractor m. Sims speculum n. Suitable UPS
79	Rapid Autoclave	<ol style="list-style-type: none"> 1. Should be a table top autoclave for Dental and ophthalmic applications. 2. Two automatic programmes approx. at 2.2 bar at 134 degrees C and 1.1 bar at 121 degree C. The equipment should have automatic pressure control switch / automatic water control device to ensure that the equipment does not run dry.

		<ol style="list-style-type: none"> 3. Should have flash cycle for rapid sterilization and should have an option for liquid cycle. 4. Should have Air Pump for closed door drying. 5. Should have rapid warm up facility. Built in reservoir to store water required to produce steam, and used water separately, for easy decantation. 6. The system should be equipped with required safety features. The door should have double locking safety feature and should open only with atmospheric pressure in the chamber. 7. Should have automatic cut-off to prevent overheating and cut-off for insufficient water, the machine should not start without sufficient water. 8. Should have a minimum chamber capacity of 19 litres or above. 9. Should have pressure display and temperature display. 10. Unit should function with 200-240Vac, 50/60 Hz input power supply. 11. The system should comply with National quality certification or International standards for sterilization safety. 12. Following accessories should be supplied along with the equipment. <ul style="list-style-type: none"> • 1 set of 3 removable shelves – stainless steel. • 1 instrument basket – stainless steel. • 1 set of 2 Drum for sterilization – stainless steel. • 1 Roll of sterilization indicator. • 1 box paper sheet 100 nos crepe for sterilization packs. • 2 spare silicone gaskets. • 1 sets of spare fuses. 13. Equipment should be provided with a line cord (power cord) of acceptable durability, quality, length and current carrying capacity and should be compatible with Indian standard power socket. 14. Controls should be visible and clearly defined. 15. Labels and markings should be clear and visible. 16. 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 the certificate / test report shall be produced along with the technical bid. 17. Should have air filters. 18. Gaskets should be replaced at free of cost whenever required in the comprehensive Warranty and CMC period.
80	Vertical Autoclave	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification.

		<ol style="list-style-type: none"> 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Quoted model should be ISI marked as per IS-3829 III. 2. Fully automatic digital, microprocessor controlled vertical autoclave, suitable for sterilization under working saturated steam pressure of 15-20 psi (adjustable) and temperature of ambient to $\geq 120^{\circ}\text{C}$. 3. Design: Double walled unit, outer shell made up of thick SS and inner chamber made up of SS 304. 4. Lid: Made up of SS plate and tightened by wing nuts. 5. Gaskets: Should be jointless, moulded and made up of neoprene rubber. 6. Capacity: Inner Chamber size 400mm X 600mm. 7. Sterilizer should be tested hydraulically up to 40-50 psi 8. Should be equipped with pressure gauge, water level/position indicator, steam release valve & necessary programmable safety valves with all functional accessories. 9. Should be supplied with automatic low water level cut off device and pressure control switch. 10. Accessories: One perforated buckets made up of SS 304 with 4 extra gaskets. 11. Power Supply: 220/230 volts AC-50 Hz or Suitable power supply 12. Each autoclave should be supplied with two glass thermometers for range of -10 to $+110^{\circ}\text{C}$. <p>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</p>
81	Radio- visiography (RVG) Unit with CPU and Desktop	<ol style="list-style-type: none"> 1. Technology: Cordless, Intra oral image plate scanner system with the photon collecting system (PCS) technology. 2. Image plates: Flexible and thin images plates of size 0,1,2,3 & 4 with 100% active area. 3. Resolution: 40 LP/mm (Theoretical) and 22 LP/mm (Practical resolution) 4. Grey scale: 14 Bit or above 5. Software: should have the capabilities to show captured

		<p>image in fine,endo,perio& noise reduction mode.</p> <p>6. Accessories: Images plate holder for all sizes plastic sleeves for plates all size.</p> <p>7. Disinfectant for disinfection of sensor plates</p> <p>8. Computer specification (CPU with Desktop)</p> <ul style="list-style-type: none"> - Latest processor and operating system - HDD: 320 Gb or more - RAM: 3Gb or more - Port: USB 2.0 (min. 3ports) - Monitor: LCD 15"/17"; 1024 x 768 pixel; True colour 70Hz - Display adaptor: 64 Bit accelerated - Graphic card: ATI Radeon or NUIDIA <p>9. The system with compatible voltage stabilizer & UPS backup</p>
82	Hip Spica Table with Timer	<ol style="list-style-type: none"> 1. Including all assemblies; elevated back board, elevated and perineal post. 2. Compatible with Adult and Pediatric Assembly. 3. Compatible with Adult and Pediatric Ortho extension. 4. Limb traction unit and Assembly required 5. Elevated Sacrol rest to casting Sacro-lumbar Area 6. Including Body stat and Side rail locks 7. Height Adjustment
83	Deep Freezer(-20 degree C)	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Should be ISO 9001,14001, 18001and CE certified 2. Vertical-type deep freezer of capacity ≥340 litres with PUF insulation. 3. Temperature range -16°C to -25°C.

		<ol style="list-style-type: none"> 4. Control panel at the top of cabinet with thermometer or temperature warning light and alarm 5. Built in condenser providing low energy consumption. 6. Combination of 6 or more pull-out drawers and fast freeze shelves. 7. Storage time during power failure should be minimum 35 hours. 8. Fast freeze button and lamp. 9. Automatic defrosting or frost free mechanism. 10. The system should have individual freezing elements for each drawer. 11. Digital microprocessor controller for temperature and a built-in multi alarm system. 12. Single reversible door, Lock facility 13. CFC free refrigerant with heavy duty compressor. 14. Compatible automatic voltage stabilizer (if not inbuilt) should be provided with equipment. 15. Power supply upto 230V /50 Hz. 16. The system should be provided with adjustable and lockable caster wheels. 17. The system should be supplied with two digital thermometers for range of -30 to +110°C. 18. The system should be supplied with 30-50 litre capacity refrigerator. <p>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</p>
84	Tissue Homogenizer	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Rotor/stator type hand held light weight tissue homogenizer which can rapidly mix, emulsify, chop and shred samples. 2. Sample volume range: should be provided with

		<p>dispensing shafts for 0.1-50 ml and 1-250 ml sample volume.</p> <ol style="list-style-type: none"> 3. Should be provided with holding clamps. 4. Speed range: 10000- ≥ 30000rpm variable, adjustable. 5. Shafts: Autoclavable, interchangeable, inert to aggressive solutions, made of SS with Teflon bushings. 6. With Universal motor 220-240V, 50/60 Hz, <p>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</p>
85	Water Purification System	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Certification: ISO 9001:2008. 2. System should have built in pump and the tap for recirculation and dispensing of purified water. 3. The recirculation ensures that water quality is optimized any time the user wants to collect. 4. Should be supplied with all necessary pre-filters, cartridges and accessories to get pure laboratory grade type-1water. 5. Feed water: Potable tap water. 6. Resistivity (at 25°C):> 18meg-ohms-cm. 7. Conductivity: 0.05 μS/cm 8. Particulates:0.22 μm (<1/ mL) 9. TOC values:<10ppb 10. Microorganisms:< 1 cfu/ml 11. Pyrogen/endotoxin level:<0.001 12. Final filtration: Through 0.22 micron filter 13. Dispensing flow rate (L/Min.): ≥1 14. System must be supplied along with two suitable digital pH meters of ±0.002 accuracy, range from -2 to +16 and Temperature Range- 5 to 105 degrees from reputed

		<p>brand.</p> <p>15. Optional accessories: Low noise level inlet power booster pump to increase pressure to > 2 bar to feed to water purification systems, reservoir tank and real time continuous TOC monitor.</p> <p>16. Power Supply: 210-240V/50-60 Hz</p> <p>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</p>
86	Video Laryngoscope	<ol style="list-style-type: none"> 1. Portable Video Laryngoscope for intubations with minimal manipulation of head & neck, dedicated features for teaching, training & learning in specialty. 2. Should have CMOS (Complementary Metal Oxide Silicon) camera. 3. Should have fog free medical- grade optical polymer. 4. Should have a suitable view angle to visualize glottis without much head & neck manipulation, ergonomically. 5. The system should have portable color video display LCD of at least 2.5" size for the real time clear view. 6. Weight of handle should be light and not be more than 250g. 7. Light sources should be High Intensity LED. 8. Should have facility to run independently on Power of 3.6V Lithium Battery with battery backup to four hour. 9. The system should be supplied with a set of different sizes of Disposable blade 2, 3, 4 and for difficult intubation with disposable blade size 3x 10. Company should have service facility in Jaipur. 11. Should be immersable for complete disinfection (without battery) 12. Blades should be of medical grade optical polymer and to be packed in sterile pack. 13. Device should have durable medical grade thermoplastics

87	Bi/PAP Non Invasive Ventilator	<p>Ventilation Modes</p> <table border="1"> <tr> <td>CPAP, Spontaneous (S), Spontaneous/Timed (S/T), Timed (T), Pressure Control (PC), AVAPS feature</td> </tr> </table> <p>Settings</p> <table border="1"> <tr> <td colspan="2">AVAPS</td> </tr> <tr> <td>IPAP min</td> <td>EPAP to IPAP max</td> </tr> <tr> <td>IPAP max</td> <td>IPAP min to 30 cmH2O</td> </tr> <tr> <td>Target Vte</td> <td>200 ml to 1500 ml</td> </tr> <tr> <td>Alarm</td> <td>Low Vte (can be disabled)</td> </tr> <tr> <td>IPAP</td> <td>Approx 4 to 30 cmH2O</td> </tr> <tr> <td>EPAP</td> <td>Approx 4 to 25 cmH2O</td> </tr> <tr> <td>CPAP</td> <td>Approx 4 to 20 cmH2O</td> </tr> <tr> <td>Breath Rate</td> <td>Approx 0 to 30 BPM (PC and S/T) 4 to 30 BPM (T)</td> </tr> <tr> <td>Inspiratory Time</td> <td>Approx 0.5 to 3.0 sec</td> </tr> <tr> <td>Rise Time</td> <td>Approx 100 to 600 msec (1 to 6)</td> </tr> <tr> <td>Vent Ramp</td> <td>Approx 0 to 45 min.</td> </tr> </table> <p>Physical</p> <table border="1"> <tr> <td>Dimensions</td> <td>Approx 24 cm (L) x 17 cm (W) x 11 cm (H)</td> </tr> <tr> <td>Weight</td> <td>Approx 2 Kilograms</td> </tr> </table> <p>Electrical</p> <table border="1"> <tr> <td>AC Voltage</td> <td>100 to 240 V, 50/60 Hz</td> </tr> <tr> <td>DC Voltage</td> <td>12 V</td> </tr> <tr> <td>AC Current</td> <td>1.25 A Maximum</td> </tr> <tr> <td>DC Current</td> <td>5.5 A Maximum</td> </tr> </table> <p>Trigger and Cycle</p> <table border="1"> <tr> <td>Triggering</td> <td>Automatic triggers with Auto-Trak algorithm: <ul style="list-style-type: none"> • Shape Signal • Volume 6 cc above baseline </td> </tr> <tr> <td>Cycling</td> <td>Automatic cycling with Auto-Trak algorithm: <ul style="list-style-type: none"> • Spontaneous Expiratory Threshold (SET) • Shape Signal • Maximum Inspiratory Time of 3.0 sec • Flow Reversal </td> </tr> </table> <p>Accessories</p> <table border="1"> <tr> <td>External battery</td> <td>Approx 7 hrs autonomy at EPAP/IPAP of 4/20cmH2O and 12 bmp</td> </tr> <tr> <td>Integrated humidifier</td> <td>5 levels of heating</td> </tr> <tr> <td>Compliance software</td> <td>Encore Pro software and Encore Smart Card, can be connected to Stardust II polygraph</td> </tr> <tr> <td>Certification</td> <td>ISI/ CE Certified</td> </tr> </table>	CPAP, Spontaneous (S), Spontaneous/Timed (S/T), Timed (T), Pressure Control (PC), AVAPS feature	AVAPS		IPAP min	EPAP to IPAP max	IPAP max	IPAP min to 30 cmH2O	Target Vte	200 ml to 1500 ml	Alarm	Low Vte (can be disabled)	IPAP	Approx 4 to 30 cmH2O	EPAP	Approx 4 to 25 cmH2O	CPAP	Approx 4 to 20 cmH2O	Breath Rate	Approx 0 to 30 BPM (PC and S/T) 4 to 30 BPM (T)	Inspiratory Time	Approx 0.5 to 3.0 sec	Rise Time	Approx 100 to 600 msec (1 to 6)	Vent Ramp	Approx 0 to 45 min.	Dimensions	Approx 24 cm (L) x 17 cm (W) x 11 cm (H)	Weight	Approx 2 Kilograms	AC Voltage	100 to 240 V, 50/60 Hz	DC Voltage	12 V	AC Current	1.25 A Maximum	DC Current	5.5 A Maximum	Triggering	Automatic triggers with Auto-Trak algorithm: <ul style="list-style-type: none"> • Shape Signal • Volume 6 cc above baseline 	Cycling	Automatic cycling with Auto-Trak algorithm: <ul style="list-style-type: none"> • Spontaneous Expiratory Threshold (SET) • Shape Signal • Maximum Inspiratory Time of 3.0 sec • Flow Reversal 	External battery	Approx 7 hrs autonomy at EPAP/IPAP of 4/20cmH2O and 12 bmp	Integrated humidifier	5 levels of heating	Compliance software	Encore Pro software and Encore Smart Card, can be connected to Stardust II polygraph	Certification	ISI/ CE Certified
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88	Spirometer	<p>Measured parameters</p> <p>FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET</p> <p>Power supply: <i>Rechargeable battery and mains power</i></p> <p>Temperature sensor: <i>semiconductor (0-45°C)</i></p> <p>Flow sensor: <i>bi-directional digital turbine</i></p> <p>Flow range: <i>±16L/s - Volume accuracy: ±3% or 50mL</i></p> <p>Flow accuracy: <i>±5% or 200mL/s</i></p> <p>Dynamic resistance: <i><0.5 cmH2O/L/s</i></p>																																																	

		<p>Connectivity: <i>USB and RS232</i> Display: <i>FSTN graphic, 320 × 240 pixel</i> Printer/paper: <i>Thermal</i> Mouthpieces: <i>approximately 30 mm</i> Weight : Low weight (approximate 2 kg) If required the accuracy and the precision of the reusable turbine remains unchanged.</p> <ul style="list-style-type: none"> • Manufacturer should be ISO certified for quality standard • Should be FDA/ CE/ UL/ or BIS approved product • Performance and safety as per latest ATS/ERS Guidelines
89	BOD Incubator	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Quoted model should be CE certified. 2. IEC 601601 test certified from independent laboratory. 3. Double walled body with inner chamber of stainless steel and outer MS with noncorrosive epoxy powder coated. 4. Capacity: ≥12 cu ft 5. Should be provided with Double doors: <ol style="list-style-type: none"> A. Outer door should be able to make equipment air tight by fit with magnetic gasket, provided with lock and key. B. Inner door should be made up of unbreakable, transparent, acrylic glass empaneled in aluminium door frame. 6. Control panel: Preferable on the top, temperature setting fine and coarse knobs, separate indicator lamps for mains, heating and cooling, and digital voltmeter for reading of incoming voltage. 7. Inner chamber: 3-4 specially designed wire mesh shelves made up of SS-304 grade and with door operated illumination through ≥2 fluorescent tubes with automatic cyclic timer 0-24 hrs. 8. Internal air circulation fan should be provided for uniformity of air circulation. 9. Temperature: <ol style="list-style-type: none"> A. Control: Microprocessor based digital display electronic controller cum indicator, B. Range: 5°C to 50°C with an accuracy of +/-0.5°C C. Uniformity: +/-1.0°C throughout the chamber 10. Door alarm: Low/high temperature alarm

		<p>11. Should be provided with safety thermostat, which switch off the heater in case of failure of temperature control system.</p> <p>12. Cooling: CFC free refrigeration</p> <p>13. Power Supply: 210-240V/50-60 Hz</p> <p>14. Should be supplied with built in/external automatic voltage stabilizer.</p> <p>15. Should be provided with conceded aesthetic design lockable caster wheels for mobility.</p> <p>16. There should be provision to upgrade it for CO₂ incubation.</p> <p>17. Each incubator should be supplied with two glass thermometers for range of -10 to +110°C.</p> <p>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</p>
90	Multipara Physiological Monitor with ETCO ₂	<p>1. Should be monitoring the parameter of ECG, RR, SPO₂, HR, NIBP & Temp., EtCO₂</p> <p>2. Should be integrated colour Active matrix TFT Display</p> <p>3. Size of the display should not be less than 10 inches</p> <p>4. Should have at least 4 traces (4 channel)</p> <p>5. Waveform display modes should be moving and fixed</p> <p>6. Should have customized function key.</p> <p>7. Facility to enlarge numerical display mode.</p> <p>8. Should have arrhythmia detection with arrhythmia alarm facility</p> <p>9. NIBP mode: Manual & automatic at different intervals. Facility to trigger NIBP measurement when a sudden critical circulation change occurs during periodic NIBP measurement.</p> <p>10. Should have non-volatile trending facility for at least 24 Hrs</p> <p>11. Should operate on both mains and battery.</p> <p>12. Inbuilt Rechargeable Battery facility should be more than 2 hours with battery level indicator.</p> <p>13. Should have alarm limits with alarm levels and alarm indication (Highlighted Message).</p> <p>14. ECG- 3 & 5 lead measurement.</p> <p>15. Monitor should be supplied with a monitor bracket & necessary hardware for mounting on a head wall unit.</p> <p>16. Monitor should be upgradeable to IBP measurement at site.</p> <p>17. Accessories:</p> <ol style="list-style-type: none"> 3 and 5 lead ECG cable with disposable electrodes- 36 nos. NIBP Cuff- Adult & Pediatric Temp. Probe- Rectal SpO₂ Probe- Two for Adult & 1 for Pediatric use <p>18. Monitor should have Electro Cautery protection for OT use: Should work on 220V AC +/-10%, 50Hz</p>

		<p>19. Should have BIS or “CR” marked or US FDA approval</p> <p>20. Should submit relevant certificate of IEC safety standards</p>
91	Defibrillator with ECG	<ol style="list-style-type: none"> 1. The unit should be portable, easy to use & lightweight 2. The unit should be based on Bi-Phasic technology with energy selection at least up to 200 J. 3. The unit should have Manual Defibrillation facility with Synchronous and Asynchronous mode 4. The unit should have both Adult and inbuilt Pediatric Paddles used in manual mode 5. The charging time up to 200 j should be less than or equal to 10 sec 6. The unit should have facility for 3/5 lead ECG monitoring 7. The unit should have inbuilt printer/recorder 8. The unit should be capable enough to deliver at least 50 shocks (200 j each) on Battery and/or 120 minutes monitoring backup 9. The unit should be able to operate on AC mains in case of depleted/no battery 10. It should have integrated high resolution LCD screen with facility for displaying waveforms. 11. It should have data storage for patient ECG and events (and other parameters) along with a data card/pen drive or equivalent for taking out data. 12. The unit should be upgradeable to Automatic External Defibrillation (AED) mode, Pulse Oximetry and Pacer mode at site. 13. Firm should give onsite training to users as & when required during warranty period. 14. The unit should be supplied with complete accessories i.e. ECG cable, user’s manual and 10 packet of ECG Electrodes 15. The unit should meet all national/international recognized safety standard including IEC-60601-1-2. 16. The unit should be ISI/CE marked/US FDA or equivalent approved.
92	Anesthesia Monitor System	<ol style="list-style-type: none"> 1. Advanced high end patient monitor having integrated non-invasive, invasive measurements & features suitable for neonate, pediatrics & adult patients. 2. Monitor must have bright, highly visible minimum 15” or more color TFT display (Medical Grade) 3. Monitor must have the facility to display 8 or more waveforms on a single screen. 4. Monitors must be able to monitor ECG (5/12 lead display with reduced lead sets), SPO2, NIBP, Respiration, dual temp, dual IBP & ETCO2, Anesthesia gas monitoring, 5. Monitor must have advanced arrhythmia detection including life threatening arrhythmias as standard feature. Also must have inbuilt and automatic facility to eliminate false arrhythmia alarms & must have ST segment analysis with ST trend.

		<p>6. The SPO2 probes must be of Massimo for signal extraction technology to monitor SPO2 during poor perfusion (Proof for the same).</p> <p>7. Must have minimum 24 hours review data including graphical and tabular trends, arrhythmia event recalls, alarms etc.</p> <p>8. Must have EtCO2 sensor can be used on both intubated and non-intubated patients.</p> <p>9. Should have minimum up to 100 events, graphical and tabular trends, alarm log, drug dose calculations, Oxy CRG, Oxygen/Ventilation and hemodynamic calculations as standard features.</p> <p>10. All monitors should be able to communicate with each other and can display other patient monitor data without the need of central monitor.</p> <p>11. Monitor must be USFDA or European CE (with notified body) approved for monitor as well as all other parameter.</p> <p>12. Monitor should have a cautery/electrical disturbance filter as a standard feature.</p> <p>13. Each monitor to be supplied with following:</p> <ul style="list-style-type: none"> ➤ 5/6 Lead ECG electrode cable 1 No each ➤ Adult & Pediatric SPO2 probe- 1no. ➤ NIBP cuffs for Adult & Pediatrics- 2 no each (of different sizes) ➤ Temp Probe- 02 nos. (Skin and esophageal/rectal one each) ➤ IBP connection cable- 02 nos ➤ IBP Disposable Pressure Transducers- 10 nos ➤ Mainstream ETCO2 set- with accessories- 01 <p>15. Manufacturer should quote to ensure proper after sale services and company should provide the service directly not by channel partner to ensure maximum uptime of the equipment by local service center.</p> <p>16. The quoted equipment should comply with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.</p> <p>17. Live demo is mandatory at our premises within stipulated time.</p> <p>18. In case of technical snag/failure the response time for inspection within 24 hour and repair within 5 days after providing a service machine. Failing which will attract penal action as per the decision of the Institution.</p> <p>Terms & Condition:</p> <ol style="list-style-type: none"> 1. Supply Period: As per the notice bid (NIB) 2. F.O.R. ESIC Model Hospital Jaipur. 3. Installation, Demonstration & Training free of cost. <p>Bidder must provide point by point compliance of the tender specification clearly specifying deviation if any.</p>
93	Laminar airflow	General:

		<ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Quoted model should be CE certified for diagnostic applications. 2. Should be manufactured by automated CNC machine for safe working conditions. 3. Should meet NSF guidelines and should be certified from independent NABL accredited lab. 4. Particle Count: Better than US Fed Std 209 E and Class100 conditions. 5. Type of Air Flow: Vertical 6. Internal Work Space: 1200mmx600mmx600mm approx. 7. Cabinet: Pre-treated powder coated ($\geq 200 \mu\text{m}$) through 7 tank process with high quality thick CRCA sheets. 8. Work Table: AISI 304 Stainless Steel 9. Side panels: Thick, transparent, Plexiglas. 10. Door: Transparent UV tolerant front glass door. 11. Light: diffused glare free, fluorescent light $> 800 \text{ lux}$, interlocked with built in UV light. 12. Airflow Speed Controller: Three Step, with automatic switch off of motor when door is closed. 13. Blower: High efficient centrifugal type with lifetime lubricated bearings; motor-blower assembly should be statically and dynamically balanced fitted with special vibration reducing pads. 14. Noise level: $< 65 \text{ dB}$ 15. Vibration level: Less than $2.5 \mu\text{m}$ 16. HEPA filters: Miniplead HEPA Filter of ≥ 99.99 %efficiency for particles $> 0.3 \mu\text{m}$ with integral metal guards & filter frame gaskets. 17. Pre-Filters: ≥ 85%efficiency for particles $> 0.5 \mu\text{m}$ 18. Standard Accessories: Air/gas vacuum line cock and mains power socket (16A) 19. Power Supply: 220-230 V, 50 Hz. 20. Support Stand: With lockable wheels for easy shifting. 21. The laminar flow should be validated for particle dust
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		<p>count at the time of installation without extra cost.</p> <p>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.</p>
94	Bio-feed Back	<p>Computerized Biofeedback for GSR, Temperature, Pulse Rate, Respiration, EMG, Parameters consisting of:-</p> <p><u>Specifications-</u></p> <p>The biofeedback is used for conducting training session for the subjects to improve stress management leading to relaxation. The feedback lap is expected to enable the user become aware of physiological process.</p> <p>The purposed system provide feedback on:-</p> <ol style="list-style-type: none"> i. GSR (Skin Conductance) ii. Temperature (Skin) iii. Pulse (change in blood flow just below the skin surface) iv. Respiration (Abdominal and Thoracic) v. Electromyography (EMG)(Muscle Tension) <p><u>SOFTWARE FEATURES:</u></p> <ul style="list-style-type: none"> - Audio Visual feedback. - A variety musical variation to set at different level of Relaxation. - Picture animation. - Separate Monitor for Video animation. - Modular system to enable use of parameters of choice at a particulars time. - User friendly sensors - Colour coded connectors - Simultaneously display of readings <p><u>Description of Modules:-</u></p> <ol style="list-style-type: none"> i. Temperature module: ii. Pulse module iii. GSR module iv. Respiration module v. EMG Module <p><u>Complete with following Accessories:-</u></p> <ol style="list-style-type: none"> i. EMG Electrodes ii. GSR Electrodes iii. Jelly iv. Pulse Transducer v. Respiration Belt - 01 No. vi. Temp. Transducer vii. Software Backup C/D <p><u>System Compatible Computer</u></p> <ol style="list-style-type: none"> i. Core i5 Processor, 4GB RAM, CD ROM, ii. Monitor (1) for test data; Monitor (2) for Animation Pictures. iii. Inkjet Colour Printer.

		<p>iv. Operating System : Window XP</p> <p>v. Keyboard, Mouse, Mouse Pad.</p> <p>vi. Trolley.</p>
95	Mini-drill	<ol style="list-style-type: none"> 1. The system should be completely modular micro power system 2. The hand piece should be able to accept all attachments without disconnecting hoses / cables by a quick lock mechanism 3. Should have LCD display for displaying the speed 4. System should conduct self-diagnosis check at power on 5. The hand piece should be powered by a Brushless DC motor for Maximum torque 6. The speed should be adjustable linearly between 1000rpm to 30,000rpm in steps of 1000 7. Cables & Connectors should be Autoclavable; cable should have a length of 3m (min) 8. Hand piece should have the facility to drive Dermatome 9. Linear control of speed should be possible with foot switch 10. Company should be ISO Certified & Instrument should have International Standard Safety requirement – European CE mark <p>Attachments: Attachment should be Pen type for high performance Should have universal collet to accept different sizes of drill bits / Burrs Max operating speed: 30,000 rpm</p> <p>Micro Sagittal saw Operating speed upto 15000 cpm Bone loss should be less than 0,5mm</p> <p>Heavy Duty Micro Sagittal Saw (Hall Type) Operating Speed upto 18000 cpm Should be able to position blades in 5 different angles Bone loss should be less than 0,5mm</p> <p>Reciprocating Saw Operating Speed upto 16000 cpm Toolless change of blades should be possible</p> <p>Micro Sagittal Saw Blades: 6mm cutting edge x 15mm length – 3nos 9mm cutting length x 15mm length – 03nos</p> <p>Heavy Duty Micro Sagittal Saw Blades: 4.5m cutting edge x 15mm length – 03nos 9mm cutting edge x 25mm length – 03nos 6mm cutting edge x 35 mm length – 03nos</p> <p>Reciprocating Saw Blades: 15mm length – 10 nos& 25 mm length – 03 nos</p> <p>High Speed Drill Attachment with Adaptor</p> <p>Dermatome Attachment with Cutting widths of 25mm, 48mm & 73mm along with thickness adjustable from 0.18</p>

		to 0.38mm
96	Air Drill	<ol style="list-style-type: none"> 1. Speed (without attachment): 0-900 rpm (maximum speed varies with attachment) 2. Torque (without attachment): 0-4.7 Nm (maximum torque varies with attachment) 3. Weight: 0.780 kg 4. Operating Pressure (with machine running): 6 bar (90 psi) 5. Air consumption: 250 l/min 6. Cannulation: 3.2 mm 7. Cleaning Brush and Autoclavable Oil included <p>Attachment:</p> <ol style="list-style-type: none"> a. Quick Coupling for Kirschner Wires <ul style="list-style-type: none"> • Speed: 0-900 rpm • Torque: 0-4.7 Nm • Cannulation: 3.2 mm (fully open) • Function: To insert/remove Kirshner wires and guide pins 0.6-3.2 mm diameter (any length) b. Quick Coupling for drill bits <ul style="list-style-type: none"> • Speed: 0-900 rpm • Torque: 0-4.7 Nm • Cannulation: 1.3 mm • Function: Accepts cutting tools and instruments with AO ASIF quick coupling fitting; Accepts Oscillating Drill Attachment and Radiolucent Drive c. Large Quick Coupling <ul style="list-style-type: none"> • Speed: 0-900 rpm • Torque: 0-4.7 Nm • Cannulation: 3.2 mm • Function: Accepts cutting tools and instruments with large quick coupling fitting d. Reduction Drive Unit <ul style="list-style-type: none"> • Speed: 0-340 rpm • Torque: 0-13 Nm • Cannulation: 3.2 mm • Function: <ul style="list-style-type: none"> ○ Accepts cutting tools and instruments with AO ASIF reaming fitting ○ Locks reverse trigger operation to prevent damage to coiled flexible reaming shafts ○ Accepts Hudson, Trinkle and Modified Trinkle Adaptors e. Jacobs Chuck with Key <ul style="list-style-type: none"> • Speed: 0-900 rpm • Torque: 0-4.7 Nm • Cannulation: 3.2 mm • Function: <ul style="list-style-type: none"> ○ Accepts round shafts up to 6.0 mm ○ Accepts triangle shafts up to 6.5 mm <p>Company should be ISO Certified & Instrument should have International Standard Safety requirement -</p>

		European CE mark
97	Non- refrigerated Centrifuge Machine	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Instrument should be US FDA certified and European CE and IVD approved for diagnostic applications. 2. It should be table top compact model with compact footprint to fit on every lab bench. 3. Maximum Speed of $\geq 2500g/ \geq 4000$ rpm with a brushless motor. 4. It should be possible to use aerosol tight rotor, aerosol tightness of rotor should be certified by a third party agency 5. Instrument should be provided with fixed angle rotor of $\geq 30 \times 15$ ml. 6. Optional adapter to accommodate minimum 4 number of 50ml conical tubes. 7. Stainless steel rotor chamber is rust-free and easy to clean 8. Speed setting should be possible in both rpm and rcf 9. It should have digital speed indicator with 0-60 minutes, digital countdown timer. 10. It should have safety lid interlock to prevent cover to open during operation. 11. Should possess a separate short spin key and dynamic break for brief spin 12. Should have the flexibility to accommodate both fixed angle rotor & swing out rotor for different formats of tubes starting from 0.2ml PCR tubes to 100ml round bottom tubes 13. Instrument should have automatic rotor recognition facility to automatically recognize and set maximum speeds upon rotor change 14. should have "At set RPM" function starts the timer when the selected rotational speed is reached for reproducible

		<p>centrifugation runs</p> <p>15. It should be possible to perform gentle acceleration and deceleration using dedicated key</p> <p>16. Noise levels should be <55db(A)</p> <p>17. It should be possible to operate the centrifuge at set rpm, for short spin protocols</p> <p>18. It should have Electronic imbalance detection for maximum safety</p> <p>19. Each centrifuge machine should be supplied with 5 SS test tube racks for 16-32 no. of 5-10 ml vials.</p> <p>20. Power supply: 220/240 volts, single phase, 50 cycles plus minus 12 AC.</p> <p>21. A line voltage corrector of suitable rating should form part of the configuration as per IS:9815/89.</p> <p>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</p>
98	Cryosurgery Equipment	<ol style="list-style-type: none"> 1. Compressed gas cylinder N₂O or Co₂ 2. Cryo probes. 3. Cryotherapy gun with handle grip and trigger. 4. Yoke with a tightening knob & flexible gas conveying tube 5. Pressure gauge showing cylinder pressure. 6. Silencer (outlet) 7. Examining table 8. Adequate light source.
99	Fully automated ELISA Plate Reader	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. System should be US FDA approved and European CE and IVD Certified for efficacy of the machine for diagnostic application. 2. It should have 96 wells and measurements of 1 to 96 wells individually in less than 10 seconds.

		<ol style="list-style-type: none"> 3. Should be capable of reading UV and flat type wells. 4. Linear measurement range: of 0.000 to ≥ 3.000 Abs 5. Photometric accuracy: $\pm 1\%$. 6. Wavelength range: ≤ 350 to ≥ 850nm. 7. Resolution: 0.0001Abs. 8. Should provide variable speed linear shaking as standard. 9. Machine should have automatic filter selection and should be supplied with 4 standard filters 405, 450, 492 & 630 nm with provision to add ≥ 2 additional filters. 10. The instrument should have inbuilt self-diagnostics, which checks the instrument during start up for the following: plate position, measurement stability (such as lamp, and optical system). 11. It should have automatic calibration before each reading. 12. Should have facility for storage of calibration curves. 13. Capable of doing multi standard tests and controls. 14. Should have different types of blanking facility like air wise and well wise. 15. Should have facility for random positive and negative controls settings. 16. Should use halogen light source and two spare bulbs should be provided. 17. Should have option of connecting with external printer. 18. Should have inbuilt printer (5 printing paper rolls should be supplied) or external printer connectivity option. 19. One compatible external laser printer should be supplied along with unit. 20. The instrument should be able to run with and without PC control with user friendly advanced software for quantitative and qualitative calculations for single, dual and kinetic measurements. 21. One compatible Desktop PC with monitor (18") and all accessories should be supplied with unit. 22. Should have graphical display of plate layout for specifying controls, standards, blanks etc. 23. It should have high contrast LCD display with quick keys for instant access to most commonly used protocols. 24. It should have capability to store ≥ 100 assay results, which can be transferable to PC by using USB device. 25. Should work with input 200 to 240Vac 50 Hz supply. 26. It should be supplied with online UPS of sufficient capacity for both Reader and PC with minimum 30 minutes back up time and dust cover for machine. 27. It should be supplied with one electronic timer. <p>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</p>
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100	Fully automated ELISA Plate Washer	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. Company should ensure uninterrupted supply of consumables for the next 10 years. 5. 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. 6. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Should be US FDA approved and European CE and IVD Certified for efficacy of the machine for diagnostic application. 2. Should have capability to wash flat, U or V bottomed micro plates or 8 strip plates. 3. Should have processes for full 96 wells, 4. Wash cycle should be 1 to ≥ 10. 5. Wash heads 8 way manifold/channels 6. Should have ≥ 25 wash program/protocol software memory or more. 7. Should have residual volume less than 3μl. 8. Should have removable and autoclavable plate carrier. 9. Should have large LCD display. 10. The instrument should be able to run with and without PC control. 11. Should have in-built vacuum and dispensing pumps to ensure accurate and quiet washing. 12. Should have waste bottle with full bottle alarm or sufficient mechanism to avoid spillage and damage to equipment. 13. Should have suction based wash buffer intake. 14. Shaking should be use programmable washing time, speeds, washing, volume, dispensing, aspiration, rinsing, priming, built in pumps aerosol cover. 15. Should work with input 200 to 240Vac 50 Hz supply. 16. Should be supplied with online pure sine wave UPS of sufficient capacity for with minimum 30 minutes back up time and dust cover for machine. 17. System should be supplied with one electronic timer. <p>Note: The availability of any required technical feature of the quoted equipment as indicated should be carefully and</p>
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		<p>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</p>
101	<p>LED Digital Trinocular Compound Microscope with 3D Stage and USB Camera with Phase Contrast and Dark field attachment</p>	<p>General:</p> <ol style="list-style-type: none"> 1. Tender is invited from reputed original manufacture or their authorized agents/ dealers only. 2. Information regarding installation in India and satisfactory service and maintenance must be forwarded with all the details for verification. 3. The company must ensure proper demonstration and training to the hospital staff / technicians. 4. 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. 5. Service and maintenance must be provided on the site of installation. <p>Technical:</p> <ol style="list-style-type: none"> 1. Head: Siedentopftrinocular 360°rotating 30° inclined, vertical tube for photomicrography, ±5 diopter adjustment ring on ocular tube, 50-75 mm inter-pupillary distance. 2. Eyepieces : Antifungus coated, wide field 10X/≥20 mm 3. Objectives : Infinity corrected CCIS plan achromatic 4x, 10x, 40x (S.L.), 100x oil (S.L.) 4. Nosepiece : sextuple nosepiece, reversed angle 5. Stage : Double layer mechanical sliding stage, pre focusing lever, tension adjustment ring, ≥180x160mm, low positioned co-axial controls, fine div 0.001 mm, fine stroke 0.1 mm/rotation, Belt-drive in X direction 6. Focusing : Coaxial coarse and fine focusing with limit stop 7. Condenser: swing out front lense, Abbe condenser, sliding-in, N.A. 0.9/1.25 with centering system, filter holder and iris diaphragm. 8. Illuminator: Kohler illumination system with 3W LED, with manual brightness control, aspherical collectors 9. Power supply: External power supply: Input 100-240Vac, 50-60Hz. Output 6Vdc 1A. 10. Supplied with extra LED bulb, dust cover, blue filter, operating manual and Styrofoam molded pack. 11. USB Camera : <ol style="list-style-type: none"> A. HDMI image camera, support HDR B. Pixel Size: ≥2.5µmX2.5µm C. Frame Rate: ≥60 fps at 1080p D. Resolution: ≥2500X1900 E. Output:HDMI, USB, SD card F. Sensor: 1/2"full HD, CMOS G. Should support TFT card, with freeze/unfreeze option, digital noise reduction,

		<p>H. Supplied with Capture software & Linear Measurement Software</p> <p>I. Should be of same make as of Microscope</p> <p>12. Phase contrast attachment:</p> <p>A. Should have centering telescopic eyepiece and green glass filter.</p> <p>B. Should have 10X, 20X, 40X & 100X (oil) phase plain achromatic objectives.</p> <p>C. Should have substage abbey condenser with revolving turrent with annular phase plates for all objectives and fifth position for bright field with iris diaphragm.</p> <p>13. The microscope should be supplied with Dark field attachment including centerable dark field condenser and all other required accessories for dark field examination without need of any additional accessories.</p> <p>14. System should be supplied with one desktop PC of desired specifications with all accessories, UPS and colour printer.</p> <p>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</p>
102	CBC Haematoanalyzer -3 part differential	<p>1. Should be of a reputed make with user friendly operation/display.</p> <p>2. Should work on 3-part differential, 19 Parameter automated counting basis.</p> <p>3. Should have duel chamber of RBC &WBC separately.</p> <p>4. Should have automatic internal & external probe cleaning.</p> <p>5. Should have reagent level monitoring system/alarm.</p> <p>6. Should have different adjustable ranges for adults, females, children and neonates.</p> <p>7. Should be able to carry out testing 50 samples per hour.</p> <p>8. Should have memory of 5000 tests.</p> <p>9. Should have a sample volume 20 micro liters or less.</p> <p>10. Should have enhanced WBC/Platelet measuring range to accommodate high WBC/platelet count in cases of Leukemia/blood bank samples.</p> <p>11. Should have on screen video display of Histograms along with parameters to detect abnormal morphologies in the sample.</p> <p>12. Should have inbuilt thermal printer for the printing of reports & histogram and option for connectivity should be there.</p> <p>13. Should have local service station for maintenance of equipment.</p> <p>14. Should work on single phase A.C .power supply of 220+-20V; 50Hz.</p> <p>15. Should have a power backup system in case of power failure.</p> <p>16. It should be based on Impedance, flow cytometry and</p>

		<p>hydrodynamic focusing technologies for WBCs.</p> <p>17. Must have sample stability of 48 hours or more.</p> <p>18. Should have built in LIS connectivity.</p> <p>19. Hb estimation must be cyanide free.</p> <p>20. Must have an auto sampler with internal and external barcode reader for sample identification, making it a totally walkway system and decreasing the manual intervention.</p> <p>21. Control must have longer shelf life after opening.</p> <p>22. Firm must have installations of quoted model in Govt set up.</p> <p>23. Firm must provide their own calibrators and controls.</p>
103	Automatic Remote Controlled with Radiolucent top Operation Table	<ol style="list-style-type: none"> 1) Should be made of composite material 2) Should have auto leveling of table top 3) Should have 2130 mm length (including head rest) x 485 mm width 4) Should have 810mm max (height with mattress 835-1095mm) 5) Should have resilient rubber mattress with anti-static cover 6) Bolsters for patient positioning; 3 in quantity: <ul style="list-style-type: none"> • One for abdominal support • One for thoracic support • One for head support (Gel based) 7) Should have 29mm x 10mm stainless side rails fitted on both sides 8) Should have Trendelberg 45 degree 9) Should have lateral tilt 25 degree (remote control) 10) Should have zero positioning of table top from any trendelenberg by remote control 11) Should have a longitudinal of 152mm with remote control 12) Should have 12" long, detachable, tilting 35degree up and down head rest 13) Should have a battery backup of 8 hours without recharge 14) Should have castor wheel for free mobility with floor lock to fix the table 15) Should be made of composite material 16) Should have auto leveling of table top 17) Should have Excellent C-arm imaging views, easy C-arm maneuverability 18) Multi procedure options for all operation 19) Automatic remote controlled operation 20) Non hydraulic leak proof design for negligible maintenance 21) Extensive use of stainless steel 22) Jerk free smooth and precise movements 23) Wide range of attachments for convenience during surgery 24) Future upgradability 25) Highly affordable low cost 26) Standard Accessory <ol style="list-style-type: none"> a) Orthopedic version- lower limb fracture attachment and tibia nailing bar on adjustable rotary clamp

		<p>b) General surgery- with radiolucent board and set of lithotomy stirrups</p> <p>c) Mattress 25mm thick = 1no.</p> <p>d) Detachable flat head plate= 1no.</p> <p>e) Adjustable shoulder support = 2 nos.</p> <p>f) Adjustable side support= 2nos</p> <p>g) Swiveling arm rests = 2 nos</p> <p>h) Patient safety body strap = 1no</p> <p>27) Optional accessories</p> <p>a) 2 section arm surgery table</p> <p>b) Sitting position shoulder arthroscopy</p> <p>c) Radiolucent lithotomy board</p> <p>d) Detachable kidney bridge</p> <p>28) Equipment should be ISI/CE certified</p>
104	Cautery Machine	<p>The Electrosurgical unit should have HF output of 400W and must be microprocessor controlled to be used for most surgical applications with efficient cutting and effective coagulation.</p> <ul style="list-style-type: none"> • It should have min. 10” Touch screen system through the implementation easier and faster with a parameter setting, external key management can be the same as a Touch screen. • It should have REM (Return Electrode Monitoring) to monitors the size of contact area between a patient and the pad. If the size is in appropriate, it automatically blocks the high-frequency current to minimize the danger of burning incidents. • Should have modes of cut, coagulation, Bipolar, ENDO cut and coagulation soft & argon. • Should have four blends of cut with varying degrees of haemostasis and a special mode for under water applications. • User settable auto stop mode in soft coagulation to switch off power automatically after the coagulation of tissue/blood vessels. • Should have multiple programmable settings and multiple preset memory for different specialty applications. • User settable auto start and auto stop facility in bipolar coagulation with auto start delay facility of 0, 1 & 2 sec. • Should have safety alarm for leakage current patient plate disconnection and continuous activation of the unit. • The unit should have the facility to continuously monitor the leakage current and stop power delivery with an audible alarm if the leakage current exceed the safety limits. • Should do auto self-test whenever the unit is switched on. • The unit should have a double pedal explosion protected footswitch and silicon rubber patient plate. • All power modes of the unit should be digitally displayed and must have soft touch key pad for controlling the power

		<p>and modes.</p> <ul style="list-style-type: none"> • The company should be ISO-9001-2000, IEC 60601,UL certified and the unit must have a European CE/ USFDA mark • The weight of the unit should be less than 7 Kg and should have volume display with audio and visual alarm. • The unit should reduce RF distortion in other O.T equipments due to noiseless performance. <p>Safety Features:</p> <ul style="list-style-type: none"> • The Safety class should be Class I and Type CF according to IEC 60601-1. <p>Technical specifications:</p> <ul style="list-style-type: none"> • Input voltage: 200V to 230 V AC, 50 Hz. • Current Fuse: 5A. <p>Standard Accessories:</p> <ul style="list-style-type: none"> • Cable for patient plate. • Silicon Rubber Patient plate assembly. • Bipolar cable 10 nos. • Double Pedal foot switch for Monopolar. • Double Pedal Foot switch for Bipolar & sealer • Monopolar electrode 5 nos. • Power cord. • Monopolar handle with cable • Monopolar twin button handle with cable • Vessel sealing clamp for open Laparoscopic hand instrument 10 mm. <p>Company should be ISO Certified & Instrument should have International Standard Safety requirement European CE mark</p>
105	OT Table with four segments translucent top with orthopedic attachment (Fracture table acceptable with C-Arm)	<p>Measurements (Approx.): Without mattress Height: 650-1050 mm or better Width: 500 mm or more Length: 2000 mm or more Maximum patient weight capacity 200 kg or more Cranial and caudal traversing 200 mm or better Side tilt: +/- 20 degrees, Back section adjustment: -40 degrees to 80 degrees Foot section adjustment: -90 degrees to 0 degrees, detachable Trendelenburg: 30 degree,Antitrendelenburg: 30 degree Head section adjustment: +/-45 degree, detachable The maximum distance from perineal post to foot attachment should be more than 1200mm <u>The operation table should have the following features:-</u> Four/Five section table top with divided foot section. Table top should permit x-ray penetration and fluoroscopy. The frame should be designed in such a way for minimum obstruction for c- arm imaging. Mattress should be radiolucent and suitable for fluoroscopy. Should have a handset for various functions. There should be inbuilt standby control enabling full use of table in case of handset failure. All table positioning, i.e. height, back section, lateral tilt, trendelenburg, and anti- trendelenburg, should be operated electrohydraulically through handset and standby control.</p>

		<p>The table top can be moved cranially and caudally on its base. Electric actuators should be good quality European makes.</p> <p>The casings on the frame and made of hygienic stainless steel. Table should have mobile base with lockable castors with electric floor locking mechanism. The Centre supporting column should be eccentrically placed on the base.</p> <p>The table should have a battery backup of at least 30 minutes.</p> <p><u>The table should be provided with the following standard accessories:</u></p> <ul style="list-style-type: none"> • Anesthesia screen double ended with clamp: 1 No. • Body strap: 1 No. • Knee crutch with clamp: - 1 pair • Shoulder support – 1 pair • Padded arm rest with straps – 1 pair • Polyurethane mattress 50 mm thick with Velcro attachment <p><u>O.T. Table should be provided with the following orthopedic attachments</u></p> <ul style="list-style-type: none"> • Fracture attachment (attached to base , non-hanging) • Perennial post with pad – adult and pediatric – one each • Sacral rest wedge shaped. • Hip rest. • Counter traction device for femur and tibia nailing • L- shaped traction extension • Traction bow • Universal leg holder- adult and pediatric – one each • Multi-purpose arm board with cushion and clamp <p>The equipment should be CE certified and ISO 13485.</p>
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**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

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Telephone No: 0141-2223579; 2228040 Fax: 0141-2223381



No: 152/ESIC MH/Store/300 Bed Hosp.Equip./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 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	

Date:

Place:

Signature of the Tenderer/Bidder



**EMPLOYEES' STATE INSURANCE CORPORATION
MODEL HOSPITAL**

(ISO 9001:2008 Certified)

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No: 152/ESIC MH/Store/300 Bed Hosp.Equip./16-17

Dated: 11.10.2017

Annexure: VI

Invitation of E-Tender for procurement of Hospital Equipment

Quote your Lowest Rates in given format

1	2	3	4	5	6	7	8
S.No.	Item No.	Name of Equipment	Manufacturer and Brand	CMC x 5 years	Unit	Rate/Unit In figures(Rs) Exclusive GST	Final Rate= Unit Price+ CMC for 5 years

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.