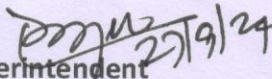
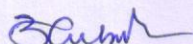


**TENDER PAPER FOR SUPPLY OF  
SUPPLY OF MEDICAL INSTRUMENT AND EQUIPMENTS  
FOR THE YEAR 2024-25**

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Cost of Tender Paper-	2000/- (Two thousand only)
Last date of Receive of tender paper-	Dt. 15/10/2024 up to 5pm
Date of Opening of tender (Technical bid) -	Dt. 17/10/2024 at 3.30pm
Date of sample verification	- Dt 23.10.2024 at 3pm
Date of Opening of Cover-B (Price bid):	Dt 25.10.2024 at 3pm
Place of Opening of tender paper-	Office of the Superintendent, SVPPGIP, Ctc-2
Address for Communication-	Superintendent, SVPPGIP, Ctc-2
Telephone No.	0671-2508978
Fax No.	0671-2508978
Email ID-	svppgip_cuttack@rediffmail.com

  
Superintendent  
SVPPGIP, Cuttack-2





## 1. TERMS AND CONDITIONS

- 1.1 Sealed tenders will be received on or before Dated. **15/10/2024** up to 5.00 P.M. by the Superintendent, SVPPGIP, Cuttack from intending supplier for supply of medical instrument & equipment's. Any tender received after the due date & time will be rejected / returned to the sender unopened.
- 1.2 It is a two bid tender and bidder(s) are to submit their tender in separate sealed covered envelopes for technical bid and commercial bid by super scribing Cover "A" (Technical Bid) & Cover "B" (Price Bid) and both the covers should be put into a third Cover, which should be super scribed as "**TENDER FOR THE SUPPLY OF MEDICAL INSTRUMENT AND EQUIPMENTS**" and also mention the contact no. and E-mail I D,
- 1.3 The tenderer should furnish EMD OF Rs.20, 000/- (refundable) in the form of BD.
- 1.4 The Sealed tenders "Cover A" (Technical Bid) submitted by the tenderers will be opened at the **O/o Superintendent, SVPPGIP, Cuttack** on date. **17/10/2024** at 3.30pm. The tenderer or their duly authorized representatives are allowed to be present during the opening of the tenders if they so like.
- 1.5 No tender documents can be accepted at any circumstances after the expiry of scheduled date and time for receipt of bids.
- 1.6 The firm must mention the items to which quoted, manufacturer name & product specification.
- 1.7 Each and every page/pages of the tender document should be serially numbered and duly signed by the tendered with stamp.
- 1.8 All entries in the tender form legible and should be filled carefully and clearly.
- 1.9 The bidder selected in documentary check should produce their quoted product before the committee for demo if committee desire. This must be produced on the date to be fixed before the committee within technical bid opening and price bid opening.
- 1.10 After evaluation of technical bid, check list & demo of performance (if required) by the committee, the bidder pass will be selected for price bid opening.
- 1.11 The approved price will remain valid for one year and no request for enhance of price within the period will be accepted.
- 1.12 The firms should read the terms and condition carefully before participate in the tender and no request for any addition or deletion will be entertained.
- 1.13 The firms have to give declaration on agree of terms and condition in the tender paper.
- 1.14 The firm/s has/have to demonstrate the items mentioned in the tender paper before the committee.
- 1.15 The form has to quote the price for washer and Dryer (who quoted for these two items). The turn key work to install these two will be taken up by R & B and PHD department. The design for turnkey shall be provided by the supplied firm.

*Baunt*

*pm*

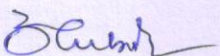
## **2. ELIGIBILITY CRITERIA**

- 2.1 Manufacturing units/Authorized Distributer/Suppliers (must have authority to sell such product from Concern Company) with supply experience to Govt. hospitals/ Public sector hospitals are eligible to participate in the tender.
- 2.2 The firm should be registered (GST) in any state or Union Territory.
- 2.3 The firm should have minimum one year experience of successfully supply of medical instrument/equipment to any govt. /public sector hospital without failure of a single item. Supply order copy is mandatory.
- 2.4 Pan card should be in the name of proprietor or firm.
- 2.5 The firm must have business turnover of more than 30 lakh per year at least in one year among last three years (2021-22, 2022-23, 2023-24).
- 2.6 The firm should not be black listed either by the Tender inviting authority or by any state Govt. or Central Govt. organization.
- 2.7 The firm must deposit August month GST Return 2024.

The following documents should be enclosed in Cover "A" (Technical Bid) by the tenderer.

## **3. COVER—A (TECHNICAL BID) :**

- 3.1 Earnest Money Deposit of Rs.20, 000(Twenty thousand) in shape of Bank Draft.
- 3.2 GST Registration Certificate.
- 3.3 Photo copy of Pan Card of firm/proprietor.
- 3.4 GST return copy of last month(August- 2024)/last quarter (June-2024) as applicable.
- 3.5 Tender paper cost of Rs.2000/-(Two Thousand) in the shape of BD.
- 3.6 Copy of minimum one year supply experience to any govt./public sector hospital . Supply order copy of instrument & equipment must be submitted in support of experience (mandatory). More period of experience will carry more weightage in case of any item/s of equal rate in price bid. Hence the firm shall have produced the period of experience categorically.
- 3.7 Copy of C.A audited/GST return of last three years and over thirty lakhs or more in at least one year.
- 3.8 Copy of last year IT return financial year 2023-24 (Assessment year 2024-25).
- 3.9 Declaration through affidavit before Notary Public / Executive Magistrate regarding non-black listed by any state Govt. or Central Govt. organization at the time of submission of the bid.
- 3.10 Detail of list of item quoted with specification and manufacturer name of quoted items should be submitted mandatory.
- 3.11 Details name, address, mobile no., Fax, e-mail of the manufacturer / authorized distributor / contract person.



- 3.12 The downloaded Tender Book and the schedules signed by the tenderer at the bottom of each page with his official seal duly affixed.
- 3.13 Relaxation of EMD in case of Manufacture participating directly for this bid can be considered as per rules of the Government of Odisha.

#### **4. DELIVERY AND INSTALATION OF TENDER (Where installation required)**

- 4.1. The date, Time and Venue for delivery of tender is as per schedule mentioned in front page of tender paper.
- 4.2. The Hospital authority will not held responsible for postal delay to reach in the office before the last date and time.
- 4.3. The firm have to install instruments and equipments those items need for installation and after successful installation have to submit the Performa SIC (enclosed) which is signed by Sister I/C and counter signed by doctor i/c.

#### **5. BID VALIDITY**

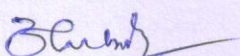
- 5.1. The validity of the tender is for one year from the date of award for such.

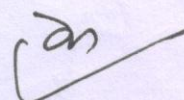
#### **6. SAMPLES**

- 6.1. The tenderer have to provide sample/demo machine before the committee for demonstration of performance of their product if committee desire. Failings to provide, the said item shall not be considered. The date for production of required sample is on 23.10.2024 without any deviation. The concern firm will be intimated about the list of sample to be produced on the day of opening technical bid. i.e on 17.10.2024.

#### **7. COVER – B (PRICE BID)**

- 7.1 The tender format giving the quoted rate for the items should be sent in a separate sealed cover hereafter called Cover “B” (Price Bid).The Cover –B (Price Bid) will be opened only of the tenderers who qualify in Technical Bid (Cover – A) as well as sample verification where required and product is as per tender specification. The price bid will be open on 25.10.2024.
- 7.2 The tender must be submitted the unit price of the items inclusive of packing, forwarding, freight (delivery at site) and installation (where necessary), but exclusive of GST in Cover-B with manufacturer name.
- 7.3 The rate shall be quoted for each item & each size separately (unit price) both in figures digit and words. If the items are not quoted with both word & digit, any correction or over writing, the bid for the concern item will not be considered.





7.4 Those items after verification of sample are found unsuitable by the tender & purchase committee, the price of those items in the concern price bid will not be taken into consideration.

#### **8. EARNEST MONEY DEPOSIT:**

- 8.1 The tender should be accompanied with Earnest Money Deposit (EMD) amounting Rs.20000/- (Twenty thousand) in shape of Bank Draft from any Nationalized/ Scheduled Bank in favor of Superintendent, SVPPGIP, Cuttack.
- 8.2 **Tender without EMD will not be considered and rejected.**
- 8.3 The EMD of the unsuccessful bidders will be return back after finalization of tender without interest.
- 8.4 The EMD of approved firm/s will be returned after submission of security deposit amount.
- 8.5 If the firm did not supply after getting order within stipulated time period, order will be cancelled and EMD amount will be forfeited.

#### **9. SECURITY DEPOSIT**

- 9.1 The approved firm/s has/have to submit performance security deposit amount of Rs.50,000/- in the form of DD to be pledged in the name of the undersigned. If the firm fails to submit security deposit within the allotted period the approval will be cancelled and EMD amount will be forfeited the firm will be bar to participated institution tender for three years.
- 9.2 If the firm did not supply completely after getting order within stipulated time period, order will be cancelled and security amount will be forfeited.

#### **10. PRICE EVALUATION:**

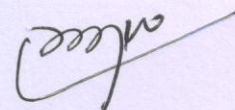
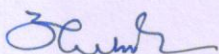
- 10.1 Tenderers who technically qualify in documentary and in specification will be evaluated only.
- 10.2 The cost of Item inclusion of the transportation, packing, forwarding F.O.R central store and installation at SVPPGIP, Cuttack but excluding GST.

#### **11. PAYMENT:**

- 11.1 Payment will be made after complete supply and satisfactory installation (where necessary) of the ordered item/s.
- 11.2 The payment may delay due to unavailable of fund and have to wait till fund available from Government. The firm should not stop supply or pressure for payment.

#### **12. LIQUIDATED DAMAGE:**

- 12.1 The Superintendent, SVPPGIP, CTC may allow extension for a maximum period of one week beyond normal of three week, after the stipulated date of supply (i.e. 30 days) with a penalty of 0.5% which will be deducted from the purchase order value as "Liquidated Damage", for each week (7 days) up to a maximum 2% on the value of the goods.



12.2 If the supplier fails to complete the supply within the extended period, i.e. 30 days after being allowed by the Superintendent, SVPPGIP, CTC, no further purchase order will be placed to the firm for the said item. In such case either the entire security amount or the differential cost for purchase of the same from local market will be adjusted against the security deposit.

**13. REJECTION OF TENDER**

13.1 Non submission of any one document or valid in technical bid, the tender shall be rejected.

13.2 If the documents /information or declaration submitted by the bidder/s found false at any stage, If any one condition as provided in SI no 1 to 10 is not fulfilled, the tender bid of the concern shall be rejected.

13.3 If the items are not quoted with word & digit, any correction or over writing, the tender shall be rejected

**14. GENERAL CONDITIONS:**

14.1 In the event of the date being declared as a holiday by Govt./higher authority, the due date submission of bids and opening of bids will be the following working date & time or, as decided by purchaser.

14.2 The authority reserves the right to accept /reject all the bids or any part thereof without assigning any reason thereof.


14.3 No conditional tender will be accepted.

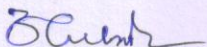
14.4 The qualified bidder, who according to terms and conditions fails to supply the items in the stipulated time period, the Security amount will be forfeited.

14.5 Any legal matter will be finalized in Cuttack Jurisdiction.

14.6 The authority is not bound to accept the lowest rate with compromising of quality/technical reason.

14.7 If the firm submitted any information or documents found to be false or misleading at any stage the tender will be rejected.

  
Superintendent  
SVPPGIP, Cuttack



**TO BE SUBMITTED IN TECHNICAL BID**

**Declaration Form**

(Affidavit before Notary Public in Rs.10/- stamp paper)

I/We \_\_\_\_\_ having my /our \_\_\_\_\_ office at \_\_\_\_\_ declare that, I/We have carefully read all the terms and conditions of the tender of the \_\_\_\_\_ Odisha for the supply of instrument & equipment. I will abide with all the terms & conditions set forth in the tender reference no. \_\_\_\_\_.

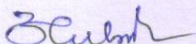
I do hereby declare that, I/we have not been derecognized /Blacklisted by any state govt. / Union territory/ Govt. of India/ any Govt. Organizations'/Govt. Health Institutions/ State Medical Corporations for supply of not of standard quality items/ non supply against supply order.

I /we agree that the tender inviting authority can forfeit the EMD/ Security deposit and Blacklist me/our firm for a period of three years if I/we could not carried out the supply order/deposit security amount against the approval in our favor or if any information furnished by us proved to be false at the time of inspection/verification and not complying with the tender Terms & Conditions.

Signature of the Bidders

Date:-

Name and address of the firm







**PROFORMA FOR TECHNICAL BID**

Sl No.	Sl No as per tender List	Name of the product	Specification	Mfg Name, Brand Name e.t.c	Documents to be attached
1	2	3	4	5	6

Date:  
Place:

Authorized Signatory  
(Signature and seal of the Authorized Signatory)

**PROFORMA FOR PRICE BID**

Sl No	Sl No. as per tender list	Name of product	Mfg. name/ Brand name	Basic rate (including packing/ forwarding and all other if any excluding GST & F.O.R. Per piece/unit) in number & in word	GST % charge	TOTAL
1	2	3	4	5	6	7

Date:  
Place:

Authorized Signatory  
(Signature and seal of the Authorized Signatory)

*30/08/20*

*[Signature]*

## **SATISFACTORY INSTALLATION CERTIFICATE( SIC)**

(To be mandatorily filled in this specific format after installation of the instrument)

### **1.PLACE OF INSTALLATION:-**

Name of Department:-

### **2. DETAILS OF PURCHASE ORDER & INVOICE:-**

Purchase order no &Dt:-

Supplier's invoice no &Dt:-

### **3. DETAILS OF EQUIPMENT:-**

Equipment name:-

Quantity supplied:-

Make:-

Model:-

### **4. DETAILS OF ACCESSORIES / CONSUMABLES / SPARE PARTS:-**

SL NO	DESCRIPTION	QUANTITY	REMARKS

### **5. DEMONSTRATION & TRAINING DETAILS:-**

Date of Installation:-

Warranty From:- \_\_\_\_\_ To \_\_\_\_\_

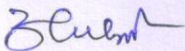
Days of training:-

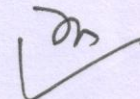
### **6. SIGNATURE OF END USER:-**

Signature of Sister I/c

Signature of Unit Head

Signature of the Head of the  
Institution





Sl. no	Name of items	Specification	Items required demonstration
1	Airbed	Material : PVC 3Ply, Thickness: 0.3-0.4 mm, Size-100cm x 90cm x7cm(inflated)	
2	Ambu Bag(250ml), Silicon	It should be made of 100% silicon. It must be durable & cost effective. Capable of being autoclave at least 50 times without losing softness. It should have pressure release popup valve, with clips to override. Set should be supplied with size-0,1 , 2 &3 silicon mask. Peep valve should be autoclavable. Stroke volume 100ml with MDI Port(optional)	
3	Ambu Bag(500ml), Silicon	It should be made of 100% silicon. It must be durable & cost effective. Capable of being autoclave atleast 50 times without losing softness. It should have pressure release popup valve, with clips to override. Set should be supplied with size-0,1 , 2 &3 silicon mask. Peep valve should be autoclavable. Stroke volume 350ml with MDI Port(optional)	req
4	Ambu Bag (750ml), Silicon	It should be made of 100% silicon. It must be durable & cost effective. Capable of being autoclave at least 50 times without losing softness. It should have pressure release popup valve, with clips to override. Set should be supplied with size-0,1 , 2 &3 silicon mask. Peep valve should be autoclavable. Stroke volume 600ml with MDI Port(optional)	req
5	Ambubag(1000ml),silicon	It should be made of 100% silicon.it must be durable & cost effective. Capable of being autoclave at least 50 times without losing softness. It should have pressure release popup valve with clips to override. Set should be supplied with size- 0,1,2 &3 silicon mask. peep valve should be autoclavable. Stroke volume 750 ml with MDI port(optional).	
6	Ambu Bag(1500ml), Silicon	It should be made of 100% silicon. It must be durable & cost effective. Capable of being autoclave at least 50 times without losing softness. It should have pressure release popup valve, with clips to override. Set should be supplied with size-3,4 &5 silicon mask. Peep valve should be autoclavable. Stroke volume 1000ml with MDI Port(optional)	
7	Artery forcep(st)4"	size-4" straight type & made up of stainless steel(s.s) materials.	Req
8	Artery Forcep (cv)4"	items should be made up of s.s material, size-4" &curved type.	Req
9	Artery forcep(st)5"	size-5" straight type & made up of stainless steel(s.s) materials.	Req
10	Artery Forcep (cv)5"	items should be made up of s.s material, size-5" &curved type.	Req
11	Artery forcep(st)6"	size-6" straight type & made up of stainless steel(s.s) materials.	Req
12	Artery Forcep (cv)6"	items should be made up of s.s material, size-6" &curved type.	Req
13	Adult weight. Machine(digital)	1.Large LCD with white backlight display Low battery / Error / Overload indicator Max Capacity 200 kg,Accuracy 100g,Display Size LED-18mm,Platform Size 350x300mmsteel / hard plastic materials, should not be light weight & also should not be glass materials.	Req
14	Adult weight. Machine (mannual)	1.Mannual type weight machine , mechanical display.Max Capacity 200 kg,Accuracy 100g,Display mannual-18mm,Platform Size 350x300mm steel materials/hard plastic should not be light weight & also glass type materials.	
15	Adson forcep(6")	items should be made up of s.s material, size-6" ,curvature-straight,autoclaveable and also suitable for pediatric surgery.	Req
16	Adson self retaining retractor(newborn)	Items should be made up of stainless steel,sub-category:-self retaining retractor,category:-retractor,hooks & spatulas,ring handle type,joint type- rivert/screw,ratchest-lock system type. Suitable for newborn pediatric surgery(specifically useable for general surgery,neurosurgery& also for orthopedic).	Req

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17	Adson self retaining retractor(pediatric)	Items should be made up of stainless steel,sub-category:-self retaining retractor,category:-retractor,hooks & spatulas,ring handle type,joint type-rivert/screw,ratchest-lock system type. Suitable for pediatric pediatric surgery(specifically useable for general surgery,neurosurgery& also for orthopedic).	Req
18	Adson self retaining retractor (adult)	Items should be made up of stainless steel,sub-category:-self retaining retractor,category:-retractor,hooks & spatulas,ring handle type,joint type-rivert/screw,ratchest-lock system type. Suitable for pediatric pediatric surgery(specifically useable for general surgery,neurosurgery& also for orthopedic).over all length-29 cm(11 1/2")	Req
19	Allies forcep(medium)5"	Items should be made up of stainless steel materials,size:-5" & 4x5 teeth.	Req
20	Allies forcep(small)4"	Items should be made up of stainless steel materials,size:-4" & 4x5 teeth	Req
21	Allies forcep(large)6"	Items should be made up of stainless steel materials,size:-6" & 4x5 teeth	Req
22	Anoxamat	Dimensions- Width x depth xheight(12x9x13inch)(30.5X23X33cm), Temperature-Operating condition - 10°C to 32°C , 50°F TO 91°F ,Storage condition -0°C to 70°C , 32 °F to 150°F,Anoxomat III -2 jar and 2 gas connection, Jar-Hold one stock of 12 petridishes ,15 cm diameter	Req
23	Autoclave(single Drum)	Approximate Capacity : 10 Ltrs with lid. Suitable for 9"x11" Sterilizing/Dressing Drum (Drum Not Included - Drum is Extra), Power Source:Electricity 220V.50Hz Single Phase 1Kw. This product is supplied with inner and outer stand.uses steam to sterilize medical equipments like surgical dressings, glass, utensils rapidly and efficiently,Made of heavy best aluminium sheet,safety valve and steam release valve, pressure gauge need. Also should be suitable for laboratory use for sterilization of lac equipemens like:- test tube, glass utensils,glass plates &etc.	Req
24	Auto Pipettes (0-100 µl) variable	Type- single channel with variable volume, volume minimum range-1µl,max range-100µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
25	Auto Pipettes (100 - 1000 µl) variable	Type- single channel with variable volume, volume minimum range-100 µl,max range-1000µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
26	Auto Pipettes(100 - 500 µl) variable	Type- single channel with variable volume, volume minimum range-100 µl,max range-500µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
27	Auto Pipettes(1000 - 5000 µl) variable	Type- single channel with variable volume, volume minimum range-1000 µl,max range-5000µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req

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28	Auto Pipettes (10-100 µl) variable	Type- single channel with variable volume, volume minimum range-10 µl,max range-100µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatibility/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
29	Auto Pipettes (1-10 µl) variable	Type- single channel with variable volume, volume minimum range-1µl,max range-10µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatibility/precision(%µl)-0.20/0.25/0.70,volume dispensing increment 1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
30	Auto Pipettes (20-200 µl) variable	Type- single channel with variable volume, volume minimum range-20µl,max range-200µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatibility/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector, volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
31	Auto Pipettes (500 µl) fixed	fixed Type- single channel with variable volume, volume range-500µl, fully autoclavable 121°C,accuracy(%µl)-0.60/0.70 /2.00, repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector,volume display, fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
32	Auto Pipettes fixed -- 0.1ml 100u/l fixed	Type- single channel with variable volume, volume range-100µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00, repeatability/ precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector,volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
33	Auto Pipettes fixed -- 0.2ml, (200µl FIXED)	Type- single channel with variable volume, volume range-200µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00, repeatability /precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl, volume adjustable facility,tips ejector,volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
34	Auto Pipettes fixed -- 1ml 1000u/l fixed	Type- single channel with variable volume, volume range-1000µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00, repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector,volume display, fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
35	Auto Pipettes fixed----0.02ml (20µL)	Type- single channel with variable volume, volume range-20µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00 ,repeatability/ precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl, volume adjustable facility,tips ejector,volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req
36	Auto Pipettes (500 µl) variable	Type- single channel with variable volume, volume range-500µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatibility/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector,volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	Req

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37	Auto Pipettes (5 - 50 µl) variable	Type- single channel with variable volume, volume minimum range-5µl,max range-50µl,fully autoclavable 121°C,accuracy(%µl)-0.60/0.70/2.00,repeatability/precision(%µl)-0.20/0.25/0.70,volume dispensing increment-1µl,volume adjustable facility,tips ejector,volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate,size:- approx-22cm.	
38	Baby Mixture scissor, cv, 5"	items should be made up of s.s material size-5" & curved type.	Req
39	Baby Mixture scissor, cv, 7"	items should be made up of s.s material size-5" & curved type.	Req
40	Balance micro(Digital weighing balance)	capacity-0 to 300 gm,pan size-100 mm, percentage of min div:- 0.01%, counting minimum weight:- 0.1 mg, display refers:- 10 times persecond, power:- approx 11VA (supplied to the AC adapter), weight approximately:- 6 kg/ 13 lb, black light LED display- customized,large,attractive LCD with multiparameter display illuminated by white backlight.Item must be suitable for laboratory use for weighing laboratory solid ingredients.	Req
41	Balfour retractor pediatric 1 ¼ th deep, 4" spread	items should be made up of s.s material spread:- 4"(10.2 cm), arm length:- 3 ½ "(8.8cm), 1 ¼ th deep suitable for Pediatric patient.	Req
42	Balfour retractor neonate 1 ¼ th deep, 4" spread	items should be made up of s.s material spread:- 4"(10.2 cm), 1 ¼ th deep suitable for neonate patient.	Req
43	Bensons pylorus separator 5 ¾ "	items should be made up of s.s material suitable for Pediatric patient. Instrument length:- 5 ¾ "	Req
44	Bobcock(big)	The said forcep should be made up of s.s material suitable for Pediatric patient. Instrument length:- 6 ¼ "	Req
45	Bobcock(small)	The said forcep should be made up of s.s material suitable for Pediatric patient. Small size.	Req
46	Bone cutter	items should be made up of s.s material,size-6".	
47	Bone cutting scissor	items should be made up of s.s material,size-8".	
48	Bone cutting scissor	items should be made up of s.s material,size-9".	
49	BP Handle size-3(blade no-15)	items should be made up of s.s material,handle size-3, blade size-15.	
50	BP Handle size-4(blade no-15)	items should be made up of s.s material,handle size-4, blade size-15.	
51	BP Handle size-4+3(blade no-15)	items should be made up of s.s material,handle size-4+3, blade size-15.	req
52	BP Handle size-5(blade no-23)	items should be made up of s.s material, handle size-5, blade size-23.	
53	BP Handle size-7(blade no-23)	items should be made up of s.s material, handle size-7, blade size-23.	
54	Bulldock clamp	items should be made up of s.s material,size-38 mm,50 mm, 56 mm.	Req
55	Block cabinets	Body Structure: CRC Sheet colour coated Tray: Colour coated with hand leand Index Holder Tray: Colour coated with hand leand Index Holder Door: With Handle & Lock Keys Tray Capacity: Each Tray Capacity-150/200blocks(Approx),must contain 10 trays. Must be suitable for laboratory use.	Req
56	Beakers-500ml	should be glass materials, capacity-500 ml. Must be suitable for laboratory use.	
57	Beakers-1000ml	should be glass materials, capacity-1000 ml. Must be suitable for laboratory use.	
58	BP Instrument(manual)	Functioning similar to Mercurial Instrument. Rising spot LED shows you pressure value provided with adjacent LCD panel for easy pressure readout. Deluxe Cuff with special control valve. Dual Power Operation (Battery cum USB adaptor). Low Power Consumption. Very easy and simple to operate.	
59	BP Instrument(Dial type)	Items should be light weight and to measure blood pressure,should provide meter with rubber pump & four no's of cuff such as:- infant,neonate,pediatric,adult in each instruments.	

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60	Baby weight machine (digital)	capacity: maximum 10kg, minimum-5 gm, Accuracy:5gm,LCD/ LED display with adopter. The product should have two face height measuring & weight measuring facility.	Req
61	Beaker glass(500 ml)	Items should be glass materials, durable suitable for laboratory use.	
62	Beaker glass(1000 ml)	Items should be glass materials, durable suitable for laboratory use.	
63	Backrest	Items should be made up of stainless steel provided with one flat panel with hollow steel tube. Panels must be coated with rexin suitable for patient. Five no's of slot adjusted for pediatric and adolescent patient comfortable use.	
64	Bed side revolving stool (three leg)	Stainless Steel(three leg)	
65	Chittle Forcep	Size-10", stainless steel (s.s) materials.	
66	Circle forceps , CV delicate, 5 1/2	Items should be made up of s.s material suitable for Pediatric patient. Instrument length:-5 1/2 ", curve type.	
67	Chittle forceps stand(Jug)	Should be made up of stainless steel, conical/round shape for kept chittle forcep.	
68	Conical flask(100 ml)	Should be made up of glass materials suitable for laboratory use must be labeled / marking as 10 ml,20 ml,30 ml,40ml,50 ml,60 ml,70 ml,80 ml,90 ml,100 ml.	
69	Central oxygen pipeline flow meter	Items body should be brass type material, humidifier chamber made up of hard plastic, accuracy flow rate +/- 7%,flow rate:-0-15 liter/minute, items should be suitable for central wall mounted oxygen pipeline <b>BS type</b> ,O2 flow regulator, jar capacity 400 ml.	Req
70	Central ward vacuum unit	Items should be wall mounted type with on/off valve together with suction central device for requested & line suction with over flow safety trap with unbreakable poly carbonate jar of capacity 600 ml and vacuum regulator. Must provide vacuum chamber with BS type knob&1.5ft. extension pipe .	Req
71	Devers Retractor 5/8"x 8"	It should be made up of s.s material suitable for Pediatric patient. Instrument length - 5/8"x8 " .	Req
72	Doyen rib elevator &respcrotorus rt. & lt	It should be made up of s.s material suitable for Pediatric patient. Instrument length- 7 "(17.8 cm)& blade- 1 1/4"(3.2cm) both right & left	Req
73	Dressing forceps delicate seratil,5"	It should be made up of s.s material suitable for Pediatric patient. Instrument length:- 5".	Req
74	Dressing Trolley	Stainless steel materials fix with 04 no's of wheel, easy to movable, have a basin and basin stand.	
75	Dural cutting scissors	items should be made up of s.s material suitable for Pediatric patient.size-6 1/2" probe tip (Taylor)	Req
76	Dural Forceps Plain	It should be made up of s.s material suitable for Pediatric patient. size:-6".	Req
77	Dural Forceps Toothed	It should be made up of s.s material suitable for Pediatric patient. Size:-6"(2x3 fine teeth with non -penetrating tips).	Req
78	Digital Thermometer	1. Should have Clear visions of temperature and beep alert sound further add to its features.	
79	Dressing drum(9"x9")	Size-9"x9", stainless steel (s.s) materials.	
80	Dressing Drum(11"x9")	Size-11"x9", stainless steel (s.s) materials.	
81	Dressing Drum(12"x12")	Size-12 "x12", stainless steel (s.s) materials.	
82	Dressing drum(15"x12")	Size-15"x12", stainless steel (s.s) materials.	
83	Dissecting forceps,	It should be made up of s.s material, size-4".	
84	Esophageal dilator(small)	It should be made up of silicon material suitable for Pediatric patient size-small.	
85	Esophageal dialator(medium)	It should be made up of silicon material suitable for Pediatric patient size-medium.	
86	Esophageal dialator(large)	It should be made up of silicon material suitable for Pediatric patient size-large.	

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87	ESR stand	it should be made up of s.s material suitable for laborotary use to kept ESR tube.	
88	Enamel bowel	It thickness should be 0.45 mm, round shape, size-12'.suitable for laboratory use.	
89	Enamel tray(12"x18")	Items should be suitable for laboratory use, size:-12"x18".	
90	Funnels	It should be glass materials suitable for laboratory use only.	
91	Forceps(plain)	It should be made up of s.s material suitable for Pediatric patient. size:-6"	
92	Forceps(micro plain)	It should be made up of s.s material suitable for Pediatric patient& laboratory use .size:-4"	
93	Fine Dissected forceps	It should be made up of s.s material suitable for Pediatric patient. size:-6"	Req
94	Fine Forceps	it should be made up of s.s material suitable for Pediatric patient. size:-6"	
95	Finochito retractor (Infant)	it should be made up of s.s material suitable for infant patient. size:-30mmX45mmX145mm	
96	Finochito retractor (Medium) pediatric	it should be made up of s.s material suitable for Pediatric patient. size:-45mmX65mmX200mm	Req
97	Finochito retractor(adult)	it should be made up of s.s material suitable for adult (adolescent)patient.	Req
98	Fingertip Pulseoxymeter	Small & lightweight design Dual color OLED display; 6 display modes" Display SpO2, PR, PI, Pulse bar, Plethysmogram" Low power consumption, automatic power off design" Battery-low indicator" Audible" & visual alarm Adjustable brightness",Two AAA 1.5V, 800mAh alkaline batteries about 30 hours, Measurement range 70% - 100% Resolution 1% Measurement accuracy 70%,should be suitable for pediatric, neonate & adolescent pediatrics.	Req
99	Fine scissor(6")	Items should be made up of stainless steel,size-6".	
100	Fine tooth forcep(4")	Items should be made up of stainless steel,size-4".suitable for neonate & pediatric patient,	
101	Fine tooth forcep(5")	Items should be made up of stainless steel,size-5".suitable for pediatric patient.	
102	Fine tooth forcep(6")	Items should be made up of stainless steel,size-6".suitable for pediatric patient.	
103	Formalin chamber(20"x12"x12")	Items must be superior 5mm thick acrylic sheets, ensuring durability and longevity. The material is corrosion-proof, transparent, and light weight, making it easy to handle and maintain & equipped with 3 sliding trays(3 layer), allowing you to neatly organize your surgical instruments for sterilization.size-20"x12"x12".	
104	Glass staining jar	Should be glass materials suitable for laborotary use.	
105	Gallipot	it should be made up of s.s material suitable for Pediatric patient. Provide gallipot with lid. Capacity-150ml.	
106	Giggle shaw	it should be made up of s.s material suitable for Pediatric patient.	Req
107	Gel casting & running tray for DNA/RNA	Dimension (L xB xH):- 21x 30.5x 8cm. Gel Dimension (Wx L):- 12.8 x15cm. Buffer Volume;- 900ml Maximum sample capacity:- 112 Adjustable combs: 28well adjustable combs (2 No's) Comb Throughput:- 28 sample Comb Thickness:- 1, 1.5 or 2mm Comb slots:-4UV trays:- gel running tray with inbuilt casting gates Platinum electrode: - red and black (1 pair)	Req

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108	Gel documentation system	<p>1)Versatile and easy to use Gel documentation system for Protein, DNA and blotting applications. 2) Should have Image resolution 5 mega pixels for resolving closely spaced bands on a gel or blot. 3) Pixel Density: 12/16 with 65536 Gray Scales. 4) Should be with Motorised Zoom lens with F1.2. 5) Should have large viewing area, Slide out Tran's illuminator, size 20x20 cm or better with 302nm wavelength UV lamps. 6) System should have integrated Touch screen and built in processor for running software for image capture and editing. 7) Images should be saved directly to USB memory stick for easy transfer to PC. 8) System should have EPI White LED light illumination, Trans UV illumination, UV to visible light conversion Screen. UV to blue light conversion screen for Safe dyes to be quoted in option. 9) System should have safety switch: override UV protects from accidental UV exposure when opening the door. <b>Software:-</b></p> <p>1) System should come with intuitive software for the control and image capture and Analysis. 2) Software should be Application driven. The user only needs to tell which application they are using along with their gel or blot size and the software should automatically configure the system for that application. 3) Analysis software should automatically detect lanes and bands and easily add molecular weight ladder. 4) Software should do 1D analysis, Molecular weight calculation, Quantification, E Gels, 5) It should also have feature of Colony counting. 6) It should able to do Band matching with dendrogram 7) Analysis software should be multiuser licensed should be able to load on unlimited number of PC/Laptops. 8) Software should Create cluster analysis diagrams, 9) RFLP, RAPD, Fingerprinting Analysis. 10) VNTR and Dendrogram Analysis. 11) 5 installation report from IIT/ NIT or Govt. institutes (for quoted model only) 12) Quoted model should be available on the website of OEM/bidder. 13) The supplier should have at least 20 installations base for quoted model. 14) System should be quoted with 5 years warranty. 15) Suitable PC should be provided with the system.</p>	Req
109	Guide wire(0.018 mm)	Items should be suitable for intubation of pediatric patient(for OT use).	
110	Guide wire(0.025 mm)	Items should be suitable for intubation of pediatric patient.(for OT use)	
111	Guide wire(0.032 mm)	Items should be suitable for intubation of pediatric patient.(for OT use)	
112	Guide wire(0.038 mm)	Items should be suitable for intubation of pediatric patient.(for OT use)	
113	Glucometer machine	Items should be light weight, durable, easy to use, to measure blood glucose level. Measurement range not less than from 30 to 400 mg/dL .Preference will be given to those machine , whose strip at present using (Glucocheck & Accusure) at this institution .	
114	Histo Trimmer	<b>The full automatic procedure control &amp; new heating element gives feature of quick heating &amp; energy saving _ The temperature survey integration block has been used to make it precise in temperature survey and credible in performance _ It possesses the function of memorization to keep the set temperature automatically after startup _The LED shows heating state</b> <b>Technical Specifications: _Range of temperature: ambient_90_</b> <b>_Precision :±1% _Voltage: AC220V 50HZ / AC110V 60HZ _Power : 150VA _Size of Table:230x160mm _Overall dimension:260_L_x185_W_x155_H_mm _Net Weight:2kg</b>	
115	Haemoglobin Meter(Digital Microprocessor Based)	device to measure haemoglobin,digital system and microprocessor based suitable for peadiatric and neonatal patient.	req
116	Hot Air Oven( 250 litres)	Capacity - 250 liter , Temperature range up to 300°C ,Minimum 3 no's of shelves with height adjustable in 25mm steps,Digital PID temp. controller with timer ,alarms & auto tuning, Aerodynamic internal design for achieving horizontal air circulation , Outer body made of G.I Epoxy coated · Inner body of stainless steel with clear bottom,C.E certified,suitable for microbiology department.	

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117	Hypospadias scissor	items should be made up of s.s material suitable for Pediatric patient.size-120 mm 1/2,120 mm 1/1	Req
118	Haemocytometer	1.1. Hemocytometer counting chamber should be able to determine the number of particles per volume of blood. 1.2. Particles are counted under the microscope. 1.3. It should contain improved Neubauer's chamber mercury coated cover slips, RBC & WBC pipette.1.4. Manufacturer should have ISO certification for quality standards	
119	Hegar Dilator Set	Type-Set Of Set Of 14 Pcs Material-Stainless Steel.items must be provide from 3mm to 24 mm double ended.	req
120	Hot plate	1.1. Scratch resistant cast iron /aluminum top, Teflon coated 1.2. 25 x 40 x 18 cm. 1.3. With electronic temperature controller up to 70 degree C 1.4. Should operate on 220V. 1.5. ISI marked/ CE approved. 1.6. Digital display of temp. 1.7. To provide calibration certificate	
121	Instrument sterilization box(big)	Items should be made up of stainless steel materials, rectangular in shape have a easy to store and carry the box for sterilize the instruments, length:- 17",width:- 13",depth:-7.5".	req
122	Instrument sterilization box(medium)	Items should be made up of stainless steel materials, rectangular in shape have a easy to store and carry the box for sterilize the instruments, length:- 14",width:- 11",depth:-4".	req
123	Instrument sterilization box (small)	Items should be made up of stainless steel materials, rectangular in shape have a easy to store and carry the box for sterilize the instruments, length:- 10.5",width:- 2",depth:-4.5".	req
124	Intestinal Clamp (big)	items should be made up of s.s material suitable for Pediatric patient.size-8".	req
125	Intestinal Clamp ( small)	items should be made up of s.s material suitable for Pediatric patient.size-6".	req
126	Iris Scissor straight sharp 4 ½ "	items should be made up of s.s material suitable for Pediatric patient. must be sharp size-4 ½ "	Req
127	Incubator shaker	Item must be suitable for biochemistry laboratory use.shaking speed range: 20-300 rpm,amplitude:20 mm,tempreture range:-4~50°C+-0.5°C,display resolution:- 0.1°C,timer range:- 1 hour,platform size:-450 mm X450 mm,maximum shaking capacity(no. of flasks X volume):- 4x2000ml,8x1000ml,11x500 ml,12x250 ml,28x100 ml,42x50 ml, load in tray:- 10 kg, power consumption:- 1100 watt, recommended voltage stabilizer:- VS 02, supply:-220-240 volts,50 Hz.	
128	Infantometer	Measuring range in Cm : 10 - 100 cm,Measuring range in inch: 4 - 39", Graduation {Measuring Rod} : 1 mm / 1/ 16 inch,Measure (WxHxD): 1110x115 x 333 mm, 43,7 x 4,5 x 13,1 inch Functions: Mobile measuring and weighing	req
129	Instrument tray with cover(big) (15"x12")	Items should be made up of stainless steel,size-15"x12".	
130	Instrument tray with cover (medium) (12"x12")	Items should be made up of stainless steel,size-12"x12".	
131	Instrument tray with cover (small) (10"x8")	Items should be made up of stainless steel,size-10"x8".	
132	Instrument sterilizer	Items should be made up of stainless steel, should not be light weight, easy to operate,size-430x200x150mm, electric requirement:- 2kw Coil	
133	Kahn Shaker	Reciprocating Kahn shaker is used for shaking Racks, bottles/flasks of different capacity by adjusting compartments provided on the shaking rack. Fabricated out of MS sheet duly powder coated. Fitted with PMDC geared motor & Dimmer stat for variable speed.Speed Range: 140 to 250 RPM. Covered Body.Suitable to work on 220V, AC.	
134	Karrison puncher(12"L) -1mm	items should be made up of s.s material suitable for Pediatric patient.must be bite size- 1 mm & cutting angle- 45°,size-12"L.	Req

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135	Karrison puncher(12"L)-2mm	items should be made up of s.s material suitable for Pediatric patient.must be bite size- 2 mm & cutting angle- 45°,size-12"L.	Req
136	Kidney tray(6"), ss	Should be made of Stainless steel, Size - 150mm (6").	
137	Kidney tray(8") ss	Should be made of Stainless steel, Size - 200mm (8").	
138	Kidney tray(10") ss	Should be made of Stainless steel, Size - 250mm (10").	
139	Loading Trolley	must be steel material, easy to transport,having 04 wheel & capacity to carry 500 kg materials.	
140	Lung holding forcep(pediatrics)	Length - 20cm ~ " ,Straight JawsTraingular Fenestrated Atrauma Serrations Ratchet Lock MechanismSatin Matte Finish must be Stainless Steel materials.suitable for pediatric patient.	Req
141	Lung holding forcep (neonates)	Length - less than 20cm " ,Straight JawsTraingular Fenestrated Atrauma Serrations Ratchet Lock MechanismSatin Matte Finish must be Stainless Steel materials.suitable for neonate patient.	Req
142	Laryngoscope handle(manual) with blade(00,0,1)neonate&ped.	This items should be suitable for pediatric and neonate patient. Must be provide handle with each one no of blades of different size of blades straight type such as (size-00,0,1) miller in each set.	Req
143	Laryngoscope handle(manual) with blade(1,2,3,4,5) Pediatric & adolescent	This items should be suitable for pediatric and adolescent patient. curv type such as (size-1,2,3,4,5) mackintosh in each set.	Req
144	Measuring cylinders(1000 ml)	Items should be made up of high qualityglass materials suitable for laboratory use , capacity-1000ml.	
145	Measuring cylinders(500 ml)	Items should be made up of high quality glass materials suitable for laboratory use , capacity-500ml.	
146	Measuring cylinders(250 ml)	Items should be made up of high quality glass materials suitable for laboratory use , capacity-250ml.	
147	Measuring cylinders(100 ml)	Items should be made up of high quality glass materials suitable for laboratory use , capacity-100ml.	
148	Magill forceps(pediatric)	items should be made up of s.s material suitable for Pediatric patient.size-5"	Req
149	Magill forceps(neonate)	items should be made up of s.s material suitable for neonate patient.size-4"	Req
150	Magill forceps(adloscent)	items should be made up of s.s material suitable for adloscent patient.size-6"	Req
151	Malleable Retractor	Items must be ribbon retractor malleable 8"x 5/8",suitable for pediatric patient.	Req
152	Mastoid retractor (Big/adolescent)	items should be made up of s.s material suitable for adolescent pediatric orthopedic & adolescent pediatric surgery patient.size-250 mm	Req
153	Mastoid retractor (small/newborn)	items should be made up of s.s material suitable for newborn orthopedic & newborn surgery patient.	Req
154	Mastoid retractor (medium/pediatric)	items should be made up of s.s material suitable for pediatric orthopedic & pediatric surgery patient.	Req
155	McIntosh Fildes anerobic Jar	The jar measures about 12.5 inches (510 mm×320mm) , The body is made up of metal (air tight), The lid also metal can be placed in an air tight fashion.	Req
156	Measuring jars(500 ml)	Items should be made up of glass materials suitable for laborotory use .size-500 ml.	
157	Measuring jars(250 ml)	Items should be made up of glass materials suitable for laborotory use .size-250 ml.	
158	Metzenbaum Dissecting Scissor, cv 6"	items should be made up of s.s material suitable for Pediatric patient.size-6"(curve)	Req
159	Metzenbaum Dissecting Scissor, Delicate cv 6"	items should be made up of s.s material suitable for Pediatric patient.size-6"(delicate curve)	Req
160	Metzenbaum Dissecting Scissor, Delicate straight 6"	items should be made up of s.s material suitable for Pediatric patient.size-6"(delicate straight)	Req
161	Micro Adsons Dressing forcep serrated 4 ¾ "	items should be made up of s.s material suitable for Pediatric patient.size-4 ¾ "	Req

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162	Microtip box	Items should be made up of plastic material to be kept at least 100 pc microtips.	
163	Multichannel Auto pipette	Type- 8 channels with variable volume, volume minimum range-5microliter ,max range-1000microL,fully autoclavable 121°C,accuracy(%µl)-2.00, repeatability/precision(%µl)-2.0-0.70,volume adjustable facility,tips ejector,volume display,fully autoclavable,calibrated pipette to be supplied along with calibration certificate.size:- approx-22cm.	Req
164	Micropipette stand	Items should be made up of plastic material to be kept micropipettes.	Req
165	Mosquito Artery Forcep (st)4"	items should be made up of s.s material suitable for Pediatric patient.size-4"(straight)	Req
166	Mosquito Artery Forcep (cv)4"	items should be made up of s.s material suitable for Pediatric patient.size-4"(curve)	Req
167	Mosquito Artery Forcep (st)5"	items should be made up of s.s material suitable for Pediatric patient.size-5"(straight)	Req
168	Mosquito Artery Forcep (cv)5"	items should be made up of s.s material suitable for Pediatric patient.size-5"(curve)	Req
169	Mosquito Artery Forcep (st)6"	items should be made up of s.s material suitable for Pediatric patient.size-6"(straight)	Req
170	Mosquito Artery Forcep (cv)6"	items should be made up of s.s material suitable for Pediatric patient.size-6"(curve)	Req
171	Micro-ryder needle holder (13 cm)5/0	Items should be made up of stainless steel materials, size-13 cm . items use to hold 5/0 suture.	Req
172	Micro-ryder needle holder (15 cm)6/0	Items should be made up of stainless steel materials, size-15 cm . items use to hold 6/0 suture.	Req
173	Needle Holder, 4" (2/0)	items should be made up of s.s material suitable for Pediatric patient.size-4" to hold (2/0) suture.	Req
174	Needle Holder, 4" (3/0)	items should be made up of s.s material suitable for Pediatric patient.size-4" to hold (3/0) suture.	Req
175	Needle Holder, 4" (4/0)	items should be made up of s.s material suitable for Pediatric patient.size-4" to hold (4/0) suture.	Req
176	Needle Holder, 4" (5/0)	items should be made up of s.s material suitable for Pediatric patient.size-4"to hold (5/0)suture.	Req
177	Needle Holder, 4" (6/0)	items should be made up of s.s material suitable for Pediatric patient.size-4" to hold (6/0) suture.	Req
178	Needle Holder, 6" (2/0)	items should be made up of s.s material suitable for Pediatric patient.size-6" to hold (2/0) suture.	Req
179	Needle Holder, 6" (5/0)	items should be made up of s.s material suitable for Pediatric patient.size-6" to hold (5/0) suture.	Req
180	Needle Holder, 6" (6/0)	items should be made up of s.s material suitable for Pediatric patient.size-6" to hold (6/0) suture.	Req
181	Needle Holder, 6" (3/0)	items should be made up of s.s material suitable for Pediatric patient.size-6" to hold (3/0) suture.	Req
182	Needle Holder, 6" (4/0)	items should be made up of s.s material suitable for Pediatric patient.size-6" to hold (4/0) suture.	Req
183	Nephelometer	protein clinical chemistry analyzer,touch screen display,nephelometer & photometry analysis principle,memory more than 500 results,automatic hemolyzing,12 wavelengths,capacity-40 parameters per run,calibration should using 2d code on the reagent cartridge,sample type-serum,plasma and whole blood, sample processing- 1 to 6 patient simultaneously, several sample types,dimension-54x59.5x45 cm(LxBxH)	req
184	Neubaur's chamber (counting chamber)	<b>The Neubauer chamber is a thick crystal slide with the size of a glass slide (30 x 70 mm and 4 mm thickness). In a simple counting chamber to count WBC, suitable for laboratory use.</b>	
185	Needle holder,5"	items should be made up of s.s material suitable for Pediatric patient.size-5"	Req

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186	Nichrome loop halter inoculating loop	Consists of a looped nichrome wire fixed into a brass handle. The brass handle is 200 mm long . The durable nichrome wire loop is 24 gauge and 75 mm.	Req
187	Nebulisation machine(portable)	Low noise out put minimising ambient noise level & reducing irritation to the patient. Should be Flow control regulator. Easy to change air filter. Easily operate the compressor.	
188	Oxygen Key	Mild Steel, Colour-Silver, Hot Rolled,	
189	Oxygen Pipe Rench	Size-10", stainless steel(s.s) materials	req
190	Oxygen Stand	Height 3.5 feet,Base Width 10 inch,Capacity One Oxygen CylinderStainless Steel,Type	
191	Oxygen flow meter (neonatal) (Low flow system)	should be wall mounted type with on/off valve together with oxygen central device for requested and line oxygen with over flow safety trap with unbreakable poly carbonate jar and o2 flow regulator. Should label low and high water density. Suitable for pipeline. Items suitable for neonatal, prenatal specialized for oxygen low flow system (1 LPM model) accuracy: +/- 0.05 LPM , flush flow:- 5-10 LPM, graduation from 0.1 liter/per minutes to 1 liter/per minute.	req
192	Paylorus lamp light, 5-3/4"	should be good lighting ,suitable for OT.	req
193	Peak Flow meter	<b>items smain body : impact-resistant ABS plastic cover and handle: high-density polypropelene, scale: hot-stamped, alcohol-resistant, shaped mouth piece : oval, haqndle: folds out , keeps hands away from the air stream thus encourages use of the proper technique for accurate reading. calibration measurement range-60-800 lit/min, resolution: 10 lit/min. should facilitate three zone adjustable colour coded indsicator such as:- green, yellow and red (on scale side)</b>	req
194	Periostomy elevator	items should be made up of s.s material suitable for Pediatric patient. Blade size-14 mm(7 1/4 inch)	req
195	pH meters of wide range digita	sholud be table top ph meter type, resolution-0.1, 0.001, 0.001 pH, Ph measuring range-0-14.00 Ph, Tempreture measuring range-0-100°C, minimum reagent volume-1 ml, filter number are fully displayed, calibration points-1 to 5 points, other- digital display type pH meter with white backlight at the same times show the pH or potential value mV.	req
196	Plain Forcep	items should be made up of s.s material suitable for Pediatric patient. size-5"	
197	Probe (Big)	items should be made up of metal body (stain less) suitable for Pediatric perianal surgery patient. butterfly with pediatric probe.	req
198	Probe (small)	items should be made up of metal body(stain less) suitable for Pediatric perianal surgery patient. butterfly with pediatric probe.	req
199	Probe double , end 5"	items should be made up of metal body(stain less) suitable for Pediatric perianal surgery patient. Plain probe with double end having size-5".	req
200	Protoscope (big)	items should be made up of s.s materials suitable for pediatric surgery patient. length-65mm, D-23mm, L-70mm, D-21mm.	req
201	Protoscope (small)	items should be made up of s.s materials suitable for pediatric surgery patient. length-54mm, D-18mm, L-56mm, D-18mm.	req
202	Pulse spin vortex	Adujstable to 100-2500 RPM, operating mode-continous and intermittent touch control mode, operating voltage-220-230V, digital display LED, capacity of 2-3 kg and orbit of 35mm required, volume thermal block sample-0.1 ml, frequency-50 Hz, weight-3.6kg, dimensiom-178x141x148 mm, shaking movement-orbital, power-32W, heavy cast-metal base and suction cup to assure stability prevent walking, others- touch/continous operation mode selection through bi-directional switch, speed regulation through knob provided on the control pannel & interchangeable mixing heads with variety of tubes.	req
203	Plain scissor(6")	Items should be made up of stainless steel, size:-6".	

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204	Patient step up	Items should be made up of steel , three step system.	
205	RBC Pipette	should be glass metrials suitable for laborotory use only.	
206	Retractor( medium)	items should be made up of s.s material suitable for Pediatric patient.fenstratedhandle 81x4"(21cm)	Req
207	Retractor( small)	items should be made up of s.s material suitable for Pediatric patient.f8-1357(14x55mm),8"(20cm)	Req
208	Retractor(Big)	items should be made up of s.s material suitable for Pediatric patient,hollow handle 81x2"(21.5 cm)	Req
209	Right angle( small)	items should be made up of s.s material suitable for Pediatric patient.size-6"	Req
210	Right angle(middle)	items should be made up of s.s material suitable for Pediatric patient.size-5".	Req
211	Rochester ochsner forcep per, cv,+ 1x2 teeth 5 ½ "	items should be made up of s.s material suitable for Pediatric patient.size-curve,+ 1x2 teeth , length:-5 ½ "	Req
212	Rochester ochsner forcep per, st,+ 1x2 teeth 5 ½ "	items should be made up of s.s material suitable for Pediatric patient.size-straight,+ 1x2 teeth, length:-5 ½ "	Req
213	Room thermometer	Items should be used to measure room tempreture both in celcius.	Req
214	Shaw	items should be made up of s.s material to be use in pathology dept.	
215	Scalpel	items should be made up of s.s material suitable for Pediatric patient	Req
216	Scissor fine , small,4"	items should be made up of s.s material suitable for Pediatric patient,size-4".	Req
217	Scoop	items should be made up of s.s material suitable for Pediatric surgery patient	req
218	Screen stand	Items should be made up ofsteel materials,03 layer folded screen stand with movable facilities.	
219	Self-Retaining retractor(4")	items should be made up of s.s material suitable for Pediatric patient,weitlaner retractor size-4".	Req
220	Self-Retaining retractor(5.5")	items should be made up of s.s material suitable for Pediatric patient,weitlaner retractor size-5.5".	Req
221	Self-Retaining retractor(8")	items should be made up of s.s material suitable for Pediatric patient,weitlaner retractor size-8".	Req
222	Sinus forcep(4")	items should be made up of s.s material suitable for Pediatric patient size-4".	req
223	Sinus forcep(5")	items should be made up of s.s material suitable for Pediatric patient size-5".	req
224	Sinus forcep(6")	items should be made up of s.s material suitable for Pediatric patient size-6".	req
225	Slide staining kit box	items should be made up of s.s material suitable for laborotory use.	
226	Slide stands ,big size	items should be made up of s.s material suitable for laborotory use.	
227	Slide tray, big size	items should be made up of s.s material suitable for laborotory use.	
228	Small Nibbler (Bone nibbler) st, 5 ½ "	items should be made up of s.s material suitable for Pediatric patient size-straight 140 mm(5 ½ "),jaw length-19	Req
229	Small Nibbler (Bone nibbler) cv,5 ½ "	items should be made up of s.s material suitable for Pediatric patient size- curved 140 mm(5 ½ "),jaw length-20 mm	Req
230	Sprit Lamp	items should be made up of s.s material suitable for laborotory use.	
231	Staining rack	items should be made up of s.s material suitable for laborotory use.	
232	Stirrers magnetics	items should be suitable for laborotory use.	
233	Stop watches	items should be made up of s.s material suitable for laborotory use.	
234	Surgical knives	items should be made up of s.s material suitable for OT use.	
235	Stitch cutting scissor	items should be made up of s.s material suitable for OT use, size:- 5".	
236	Stethoscope(pediatric)	chest peice with plates flat and conical components shaped with O2 ear pieces, adjustable arms with O2 flexible spring, compatible for paediatrics use.	req
237	Stethoscope(neonatal)	chest peice with plates flat and conical components,Y shaped with O2 ear pieces,adjustable arms with O2 flexible spring,compatible for neonatal use. Diaphragm size- 33 MM.	req
238	Steel bowel(big)(12"x18")	Items should be made up of stainless steel,size(12"x18")	

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239	Steel bowel (medium)(12"x12")	Items should be made up of stainless steel,size(12"x12")	
240	Steel tray(10"x8")	Items should be made up of stainless steel, size(10"x8")	
241	Steel tray(12"x12")	Items should be made up of stainless steel, size(12"x12")	
242	Steel tray(15"x12")	Items should be made up of stainless steel, size(15"x12")	
243	Stadiometer	Measuring range: 20 – 205 cm / 8 – 81" Board depth: 5.5 cm Graduation: 0.1 cm Precision: ±0.2cm Unit of Measurement: Centimetre Accuracy: ±0.2cm .	
244	Sterilium stand	To kept sterilium bottle/ sanitizer bottle.	
245	Skin grafting handle(3")	Items should be made up of stainless steel,size:3".	Req
246	Skin grafting handle(6")	Items should be made up of stainless steel,size:6".	Req
247	saline stand	Size (Dimensions In Length X Breadth X Height): 50 X 50 X 200 Cm, Material of stand Stainless steel, Wheel Material ABS Plastic Number of Wheel Three Castor size 5 cm	Req
248	sponge holder	Size-6", stainless steel(s.s) materials	
249	Suction Machine(oil free electric cum foot operated)	Body-MS Powder Coated, SS Top on two wheels, Max. vacuum-Electric -600 mm Hg, LPM-Electric 45 Ltrs / min,Pedal -600mm Hg, 200 ml /push stroke, Pump Type-Electric - Diaphragm / Pedal - Piston,Tubing-10 mm ID x 2 mtr. (PVC),Jars-2 x 2 Ltr. PC Jar, Filter-Bacterial Filter Autoclavable / Reusable, Vacuum Gauge-6.25 cm dia 0-760 mm Hg, Noise Level- low, Overflow Safety-Dual Mechanical.	
250	Test tube stands(steel)	items should be made up of steel material suitable for laborotory use.36 hole capacity.	
251	Test tubes set for centrifuse	items should be made up of glass material suitable for laborotory use.	
252	Test tubes set (large)	items should be made up of glass material suitable for laborotory use.size-25x150 mm,55 ml.	
253	Test tubes set (small)	items should be made up of glass material suitable for laborotory use,size-15x125,20ml.	
254	Thermometer 0-250 degree Celsius for hot air oven	thermometer with fork,borosilicate glass materials,operating type-analog,measuring range-0-250°C,width-1 mm,length-30cm,mercury filled thermometer with accuracy and peliable reding of tempreture from 0-250°C.	
255	Tissue forcep (1x2 teeth) 5"	items should be made up of s.s material suitable for Pediatric patient,size- 1x2 teeth 5"	req
256	Tongue depressor	items should be made up of s.s material suitable for Pediatric patient,size-5"	
257	Towel clip	items should be made up of s.s material suitable for Pediatric patient. Doyenstowel clip suitable in ot.	
258	Tuttle forcep light pattern 7"	items should be made up of s.s material suitable for Pediatric patient. Size-7".	Req
259	Tooth forcep(6")	items should be made up of s.s material suitable for Pediatric patient,size-6"	
260	Tooth forcep(4")	items should be made up of s.s material suitable for Pediatric patient,size-4".	
261	Tenotomy scissor(6")	items should be made up of s.s material suitable for Pediatric patient,size-6".	Req
262	Urethral Dilator set	items should be made up of s.s material suitable for Pediatric patient.tunner Udset(8,10,12,14 fr),length-14 cm	req
263	UV light bulb(42 volt,6 watt)	Items should be suitable for OT having germicidal facility,T5 42 volt ,6 watt.	
264	Vascular clamp & Forceps of different size & shape (30°,size-6 ½ ")	items should be made up of s.s material suitable for Pediatric patient, colley atrumatic vascular clamp-(30°,size-6 ½ ")	Req
265	Vascular clamp & Forceps of different size & shape (60°,size-6 ¼ ")	items should be made up of s.s material suitable for Pediatric patient, colley atrumatic vascular clamp- (60°, size-6 ¼ ")	Req
266	Vascular clamp & Forceps of different size & shape (90°,size-6")	items should be made up of s.s material suitable for Pediatric patient, colley atrumatic vascular clamp-(90°,size-6")	Req

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267	Vascular Forceps(4")	items should be made up of s.s material suitable for Pediatric patient. Colley atrumatic vascular clamp working end size-4".	Req
268	Vascular Forceps(5")	items should be made up of s.s material suitable for Pediatric patient. Colley atrumatic vascular clamp working end size-5".	Req
269	Vascular Forceps(6")	items should be made up of s.s material suitable for Pediatric patient. Colley atrumatic vascular clamp working end size-6".	Req
270	Vascular Forceps(8")	items should be made up of s.s material suitable for Pediatric patient. Colley atrumatic vascular clamp working end size-8".	Req
271	VP Shunt Burr hole(pediatric) manual	items should be made up of s.s material suitable for Pediatric hydrocephalus patient.	Req
272	VP Shunt Burr hole(neonate) manual	items should be made up of s.s material suitable for neonate hydrocephalus patient	Req
273	VP Shunt Introducer (Pediatric) manual	items should be made up of s.s material suitable for Pediatric patient	Req
274	VP Shunt Introducer (neonate) manual	items should be made up of s.s material suitable for neonate patient	Req
275	Vein finder	Items should be portable,easy to handle,specialized to found peripheral vein in neonates,infants,pediatric patient both in nephritic syndrome patient and healthy adolescent patient,effective projection distance:-29-31cm,size-152x83x85(LxWxD), Infraed wave length:-750-980nm,rechargeable with electric direct supply facility,voltage:-3-5 volt,projection illumination:-300 lux-1000 lux, used to detect vein at palm,arm,feet,forhead,jugular,bracheocephalic area.	Req
276	View Box(double view)	Double film view at a time , LED	Req
277	View Box(single view)	Single film view at a time , LED	
278	WBC Pipette	items should be made up of glass material suitable for laboratory use.	
279	Weittaner- Beckner retractor sharp 6 1/2 "	items should be made up of s.s material suitable for Pediatric patient,size- 6 1/2 "	Req
280	Water bath with variable tempreture	Tank - high grade SS tank Capacity - 12 ltrsTemp. range - Ambient to 99 `C Temp. accuracy - 0.2 `C Temp. control - Digital PID control Timer - 0.1 hr to 99.9 hr & continuous Safety protection - User settable and fixed thermal cut-out Display - digital display of temp. Alarm - low level water alarm , safety shut down audible / visual alarm Tank design for easy cleaning and draining Operation voltage - 230 V, 50 Hz Steel holder for tubes ( 1.5/2ml,5ml,15ml) &flasks (50,100&250 ml)	

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281	Working cabinet (Bio safety cabinets)	<p>Class of biosafety cabinet -CLASS II (A2 TYPE ) Type of configuration -free standing Type of air cleanliness class limit in the working area -ISO14644-1 and 2 (class 100) Noise level in dB -65 Nominal inflow velocity in feet per minute with air volume @ 450 cube feet / min -110 .Nominal down flow velocity in feet per min-55.p Direction of air flow-vertical Type of airflow pattern -70% air recirculated through filter 30 % air exhausted Pressure monitoring system with pressure drop -13 -14 mm Hg pre fiber Material used for working area and cabinet area -stainless steel 304 grade Type of sterilization used in the cabinet -UV germicidal tube Type of illumination used for working surface -UV tube lights with optical reflectors to ensure uniform intensity distribution of the UV radiation throughout the cabinet along with white light Type of filter used for air supply and exhaust -HEPA Filtration efficiency of HEPA / ULPA filter -99.99% for 0.3 micron particle / 99.999% for 0.1 micron particle Maximum opening height of the sash ( door ) in mm -305. Width of the working area 4 ft , depth of the working area 2 ft and height of the working area 2 ft and more . Front door -clear , toughened sliding door of 5mm thickness Type of power supply in VAC , Hz -100 -240 VAC , 50-60 Hz Should be provided automatic airflow adjustment and microprocessor control of air velocity in real time with display The exposure time of UV light to be control through timer in 30 min Should be provided castor, leveling jacks,&amp; locking facility Drain outlet with flexible hose. Audio &amp; visual alarm for HEPA filter failure Biosafety cabinet should have provision for fitting taps for vaccum , waste , &amp; combustible gas. Casing -Epoxy coated CRCA frame</p>	
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**Barrier washer extractor with automatic dosing pump - Capacity 50 kg.**

1. The washer should have front loading and unloading of the washed garments shall be done from the other side (Unloading door).
  2. Unloading door shall be placed at at 180 degrees angle from the loading door, soft mount type with suspended construction allowing a 300-350G.
  3. It should have automatic inner drum positioning in loading or unloading position.
  4. The Barrier Washer ensures that any wash program is performed in full before it allows unloading on the clean side.
  5. This guarantees that linen has been properly washed and disinfected before unloading it on the clean side.
  6. It should have 2 doors (Loading & unloading door) and Mutual lock of loading and unloading door, can't be opened simultaneously.
  7. Both the inner and outer wash cylinders should be constructed using stainless steel 304 and inner wash cylinder should be fitted with perforated spray lifters for improved agitation and quicker soaking of wash load.
- It should have Automatic Outer door locking and unlocking with pneumatic system for maximum safety and efficiency.
- In case of, fast forward, error, power failure & emergency stop, the machine will only allow opening on the dirty side.
- Safety interlock on the loading door supervises the water level and the motor drive so that the door cannot open until the water level is below the inner drum and the drum rotation has stopped.
- It should have end of cycle audio visual alarm.

Washing machine automatically

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with 100% dryer 50Kg capacity

should have pneumatic suspension for less vibration. It  
 should have variable Frequency controlled motor and silent rotation  
 speeds. The out  
 of balance shall be determined electronically and based on the out of  
 balance, the machine shall be able to determine the maximum allowable  
 speed for extraction up to 300-350G. **Control**  
**Panel-** The machine shall be controlled with an electronic micro-processor  
 with the following minimum features:- The control shall  
 display remaining wash time, error codes and program status indication.  
 The display shall be of LED/LCD-type and shall be possible to display text  
 and symbols. **Wash Programs:**  
 The machine shall have a capacity to store program —libraries|| with up to  
 30 different wash programs. It shall be possible to  
 automatically start a wash program at a certain time. Software to ensure  
 linen cycle time and also helps for data logging and process validation.  
 Software that ensures that any wash program performs to it ends before  
 it allows unloading on the clean side this would ensure that no manual  
 bypass or override of the wash program is done for the completion of the  
 wash cycle. Control panel can be lockable with password. Liquid  
 Detergent supply: - The chemical/detergent supply should be through  
 dosing pump only with minimum 5 chemical boxes. The machines shall be  
 available for use with only liquid supplies via external dosing pumps. Drive  
 system: The machine shall have a motor powered by a variable frequency  
 drive. There shall be no gearboxes, clutches or gear reducers. Water and  
 drain: The machine shall be provided with two water inlets (Cold/Hot).  
 Basket Volume- 500 Ltrs.(Minimum) Final Extract - More than 800 RPM  
 more

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282 Drying Tumbler front loading - Capacity minimum 50 kg

- a) Heavy duty, Front Loading, Auto-timed, Auto-reversible, Dual Motor drive, Open Pocket & Front display, and axial air flow, the dryer should be with temperature control system.
- b) Control –Microprocessor with adjustable parameters such as temperature, programme and cool down time and feature to control the moisture control in the dryer.
- c) Software for data logging and process validation for drying.
- d) Temperature Controller - Auto digital control
- e) Time Controller- Auto digital control for drying and cooling
- f) It should have large door opening for easy loading and unloading. Door should be made up of SS 304 with toughened glass window with interlock for safety.
- g) Inner Drum–Should be made of Stainless steel 304.
- h) Moisture control feature for the continuous measurement for the garments in the cycle to prevent over drying and thus saving energy and time.
- i) Safety features-The tumble dryer should be equipped with overheating protection and a temperature sensor that turns off the heat if the airflow is clogged.
- j) The dryer should stop in case the door is opened during operation.
- k) Door Opening - 800 mm or more
- l) Basket Volume- 1000Ltrs.or more
- m) Suction Blower- Heavy duty Centrifugal Suction Blower and dynamically balanced
- n) Lint Screen - Self-cleaning lint screen, facility of cleaning should be through front door

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23. BACTERIOLOGICAL INCUBATOR

Specification

- Volume - 100 - 150 ltrs.
- Temp.range - ambient 10 - 60°C
- Temp accuracy -  $\pm 0.2^{\circ}\text{C}@37^{\circ}\text{C}$
- Temp.controller - dual display PID controller Display SV & PV auto tuning featur.
- Temp. Sensor - PT100
- Inner chamber - SS 304
- External chamber - powder coated GI sheet.
- Insulation - glass wool.
- Door - insulated door mechanical latch / clamp glass window.
- Heaters - resistance wire heaters.
- Shelves - 3 - 5 SS shelves removal.
- Air circulation - motorized blower / axial fan.
- Standard fittings - main ON/OFF switch, load indicator, fan on / off switch.
- Power supply - 220 V, 50 Hz.

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