



EMPLOYEES' STATE INSURANCE HOSPITAL

Rohini, Sector-15, New Delhi - 110085

Website: www.esic.nic.in

Sealed tenders are invited by Medical Superintendent ESI Hospital Sector-15, Rohini-110085 for the supply of following items:-

S.No.	Name of the equipment	Qty	Department	Earnest Money in (Rs.)	Bid System	Date of Opening of bids
1.	Operating Microscope	01	Eye	30,000/-	Two Bid	29.08.11
2.	Crash cart	03	Anesthesia	10,000/-	Two Bid	29.08.11
3.	Cardiac Monitor Cum Defibrillator	01	Anesthesia	10,000/-	Two Bid	29.08.11
4.	Respiratory Gas Monitor	02	Anesthesia	15,000/-	Two Bid	29.08.11
5.	Immunoassay Analyzer	01	Pathology	30,000/-	Two Bid	01.09.11
6.	Fully Automatic Analyzer	01	---DO----	30,000/-	Two Bid	01.09.11
7.	Fully Automatic Five Part Differential Hematology Analyzer	01	---DO----	35,000/-	Two Bid	01.09.11
8.	Nasal Endoscope and Instruments for FESS	01	ENT	20,000/-	Two Bid	02.09.11
9.	Micromotor Drill System with Handpiece & Burrs	01	ENT	12,000/-	Two Bid	02.09.11
10.	Tympanometer/ Impedence Audiometer	01	ENT	10,000/-	Two Bid	02.09.11
11.	Pure Tone Audiometer	01	ENT	10,000/-	Two Bid	02.09.11
12.	ENT Examination Unit	01	ENT	20,000/-	Two Bid	02.09.11

Interested firms are requested to download the tender form with terms & conditions from Website- www.esic.nic.in . Separate bid has to be submitted for each item. Tender form is to be submitted complete in all respects along with prescribed EMD in favour of ESIC FUND ACCOUNT No.1 New Delhi in form of DD or Banker cheque only.

Tender complete in all respects must be deposited in tender box kept in DMS room of the hospital up to **2.00 pm** on due date of opening. Tender received late will not be entertained.

Tender will be opened on the due date at **2.30 pm** in the chamber of DMS, in the presence of bidders or their authorized representatives. If due date of opening is declared holiday, tender will be opened on next working day at same time and place.

Medical Superintendent reserves the right to reject any tender or all without assigning any reason(s) thereof.

Medical Superintendent



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Tenders complete in all respect, must be deposited in the office of the Medical Superintendent, ESI Hospital, Rohini, Sector 15, Delhi-110085 on or before from the date of opening up to 2.00 P.M. The tenders will be opened on the same day in the chamber of Dy. Medical superintendent at 2.30 P.M. in the presence of tenderers or their representatives who may like to be present on that day. In case date of opening of tender is declared as holiday tenders shall be received and opened on next working day as per the above mentioned schedule

The tender/s should be submitted in sealed envelope addressed to the Medical Superintendent, ESI Hospital, Rohini, sector 15, Delhi-110085, The envelope should be super-scribed as "Tender for Equipment (Name of equipment) due on....., Medical Superintendent, ESI Hospital, Rohini, sector 15, Delhi-110085

Tenderers are to submit two bids Viz. Techno-commercial Bid and Price Bid separately super-scribing as "Tender for Equipment (Name of equipment) due on..... on first envelope and "Price Bid" for "Tender for Equipment (Name of equipment) due on..... on the second envelope. Both the envelopes should have name of the company quoting the tender, Each and every page of the quotation should be separately numbered and duly signed. Both the envelopes are again to be sealed and put in a single envelope Super-scribing name of equipment and name of company last date of submission of tender addressed to the Medical Superintendent, ESI Hospital, Rohini, sector 15, Delhi-110085

The contents of Techno Commercial Bid should include following items

- 1 Covering letter indicating the list of enclosures.
- 2 EMD in accordance with instructions as above.
- 3 Name and detailed specifications of the quoted Equipment with price Blanked
- 4 Name and detailed specifications of essential accessories if any with price Blanked
- 5 Name and detailed specifications of optional accessories if any with price Blanked
- 6 Name and detailed specifications of the alternative Equipment with price Blanked
- 7 Warranty Offered.....Year/s (Minimum for Two Years)
- 8 Rates of AMC and CAMC minimum for 5 years after expiry of warranty.
- 9 Statement of deviation parameter wise from tendered commercial conditions, /specifications if any.
- 10 Copy of Income tax clearance certificate, latest PAN/TAN
- 11 Statement of deviation parameter wise from tendered conditions, if any.
- 12 Authority letter from manufacturer/ authorize distributor/ stockiest.
- 13 Users List
- 14 Name and address of nearest authorized service center
- 15 Catalogue of the equipment showing the make/model no and specifications
- 16 Declaration/ undertaking on stamp paper as per the performa enclosed

The contents of price Bid should include following items

The information given at Techno commercial bid should be reproduced in price bid with prices indicated.

Rates should preferably be typed in words as well as in figures, free from erasing, cutting and over-writing

Price quoted should match with the items quoted in technical bid.

Each and every page of the quotation be separately numbered and duly signed.

Only Techno-commercial bid (Un-Priced bid) will be opened first and shall be referred for the Technical Evaluation. The price bid of only those tenderers whose technical bid is found acceptable by the competent authority will be opened for further action.

In case the price quoted cannot be matched with the item/s quoted in technical bid the bid shall be liable to be rejected

Rates and S.T./ VAT must be quoted separately .The price should be all inclusive lump sum price offered for each item including cost of the equipment, freight, insurance, transit insurance, packing forwarding etc. and including charges for installation and commissioning with all the men and material required for the same and included charges for the quoted warranty period.

The price should be on F.O.R. ESI Hospital, Rohini, Sector-15, Delhi-110085. No other charges in addition will be payable on any account over and above the lump sum price quoted in the price bid. The rates quoted in ambiguous terms such as “Freight on actual basis” or “Taxes as applicable extra” or “Packing forwarding extra” will render the bid liable to rejection.

The price should be quoted in I.N.R.

TERMS AND CONDITIONS GOVERNING CONTRACT

1. The Tenderer must enclose a draft/banker Cheque for rupees mentioned against each items as earnest money drawn in the favor of ESI Fund A/C No.1.
2. EMD Deposited with earlier tender if any or in any other form as given, will not be adjusted/accepted against this tender. Tender without EMD will not be accepted in any case.
3. Tenderer will have to demonstrate the quoted item if required to Technical Evaluation Committee within the stipulated time frame as and when asked for or as has been mentioned in the tender. The tender shall be liable to be cancelled on non-compliance of this clause.
4. EMD will be released after finalization of tender to unsuccessful bidder/s.
5. Successful bidder has to deposit 10% of the total cost of equipment as performance security with the Medical Superintendent in the form of Demand Draft/ Banker’s Cheque/ Bank guarantee else 10% of the payment due (Rounded-up) shall be with-held which will be released on satisfactory performance of the equipment after expiry of warranty.

6. The firm should undertake that the rates quoted are not the higher than quoted for any other govt. Institution / hospital in India.
7. The company will get only one chance for demo. In case the company fails to arrange the demo the tender shall liable to be cancelled.
8. The date for demonstration shall be fixed with mutual consent on telephone the same shall be confirmed in writing and by fax. In any case not more than two weeks time shall be given to arrange for demo.
9. In case demo of the equipment is required the same has to be arranged at Delhi or NCR.
10. Only the item/s of manufacturers or their authorized distributor/stockiest would be considered.
11. Tenderer must provide the telephone and fax no with tender for all correspondence.
12. The equipment should be guaranteed /warranted for a minimum period of two years or as mentioned in specifications the date of satisfactory installation and inspection.
13. Delivery schedule: - Within 4 weeks after placement of supply order.
14. Firm should undertake to enter into Annual Maintenance Contract (AMC/CAMC) for equipment as well as for accessories attached, for minimum period of five years after completion of warranty period and accordingly quote the rates of AMC for five years. The rates quoted should be both for Comprehensive AMC (CMC) as well Non Comprehensive AMC (AMC) for five years. Firm should undertake to keep the equipment in running order throughout the year and in case of equipment going out of order the fault will be attended within 24 hours of lodging the complaint.
15. Payment of equipment will be made within two weeks after the successful installation, training to user deptt. and satisfactory inspection of the equipment.
16. For the equipment where reagents, cartridge, consumables, etc. are required. The price bid must include: A) Rate list indicating the prices and packing prevalent on date of tendering, B) List indicating cost and life of consumables
17. Photocopy of latest Income Tax clearance and PAN No. Should be enclosed with the completed tender.
18. Tenderer if not a manufacturer, has to submit manufacturer's authorization certificate
19. No of installations, installations in local area, feed-back from them, proximity of service center, quality of equipment, Duration of Warranty offered, rates of AMC/CAMC, modern technology, shall also be a criteria in making the decision.
20. Higher end model/additional feature may get preference.
21. In case the firm wants to visit the user dept. they can visit on working days during working hours i.e. from 10:00 A.M. to 3:00 P.M.in order to find the suitability of place, availability of electronic points, water supply and to assess any other condition required for the equipment.
22. If any accessories like voltage stabilizer, water filtration/ purifier/ soften plant etc. are required with the equipment must be quoted with the equipment.
23. The Medical Superintendent has the right to accept or reject any or all the tenders without assigning any reason(s) thereof.
24. The Tenderer is required to submit undertakings as per the Performa enclosed on a non-judicial stamp paper of Rs.10/-

Medical Superintendent

UNDERTAKING: (To be submitted in non judicial stamp paper of Rs. 10/=)

- 1 I,.....(Name of authorized Signatory) the undersigned hereby declare and affirm that I have gone through the terms and conditions governing the tender and undertake to comply with all terms and conditions.
- 2 That the rates quoted by me are valid and binding upon me for the period validity of tender.
- 3 The rates quoted are not the higher than quoted for any other govt. Institution / hospital in India.
- 4 That the earnest money of Rs._____deposited by me vide Banker Cheque/Demand Draft no._____ Dt._____drawn on.....(Name of the Bank) is attached herewith.
- 5 That I/We authorize Medical superintendent to forfeit the earnest money deposited by me/us if any delay or failure to supply the article within the stipulated time and the items of desired/quoted quality.
- 6 That I will be in the position to provide Annual Maintenance Contract/Comprehensive Maintenance Contract (AMC/CMC), spare parts, accessories attached and its consumables for 5 years from the date of satisfactory installation of the equipment till the AMC/CMC period is over.
- 7 That there is no vigilance/CBI case or court case pending against the firm, debarring my firm to supply of items quoted.
- 8 That I hereby undertake to supply the items as per directions given in supply order within stipulated period.
- 9 That I undertake to maintain the equipment to the satisfaction of user during the period of warranty and guarantee.
- 10 I have been informed that the Medical Superintendent has the right to accept or reject any or all the tenders without assigning any reason thereof.
- 11 We (Name of firm) undertake that we will provide 3 (Three) preventive service on quarterly basis during the warranty and AMC/CMC period as offered in our tender and any no. of break down calls shall also be attended within 24 hrs. I also agree that the payment of AMC/CMC shall be made to me on quarterly basis after satisfactory preventive service.

Signature and address of the Tenderer

Proforma Quotation

S.No.	Specifications		
1.	Name of manufacturer and model quoted		
2.	Whether the equipment quoted meets all specifications or not		
3.	Any deviation from tendered specifications		
4.	Additional features if any		
5.	Nearest place for availability of after sales service		
6.	List of the installations provided or not		
7.	Relevant catalogues enclosed or not		
8.	Any deviation from terms and conditions of tender		
9.	Validity of tender (Minimum six months)		
10.	Total cost of equipment including essential accessories	Prices to be blanked in techno commercial bid	Prices to be indicated only in price bid
11.	Rates of salestax/ VAT etc. chargeable on 10 above F.O.R.	DO	DO
12.	Warranty offered (minimum 24 months after successful installation and satisfactory inspection)		
13.	Rate of AMC year wise minimum for five years after expiry of warranty.	DO	DO
	Rate of AMC year wise minimum for five years after expiry of warranty.	DO	DO

Specifications of Operating Microscope (Eye)

1. Ophthalmic Operating Microscope with Co-axial cold light illumination.
2. Five Step / Zoom Magnification
3. Apochromatic objective lens and apochromatic magnification changer.
4. Control of X-Y movements through foot pedal
5. 45 degree to 60 degree inclined binocular tube
6. Motorized foot control for fine focusing.
7. Eye pieces(10-12.5 X)
8. Facility for IPD adjustment with knob from 55mm – 75mm.
9. Working distance 175-200mm.
10. Halogen reflector lamp of 100-150W & 10-15 volts/ LED illumination.
11. Filter to decrease blue wave length.
12. Retina shield filter and U-V filter.
13. Excellent resolution and contrast of the Image
14. Exceptional grade of stereopsis.
15. Stereoscopic binocular assistant microscope
16. Mobile Floor Stand.
17. Make-Indigenous/Imported.

Specification of Crash Cart

- Frame work made up of S.S. tube.
- Size approx. 900 to 960 mm L, 450 to 500mm W, 1500 to 1550 mm H.
- Two light weight polystyrene boxes each with three drawers.
- Upper drawer with medicine container of different size.
- Provision to hold oxygen cylinder and cardiac massage board.
- Should have atleast 5 to 6 coloured handout bins to keep important supplies at eye level.
- Atleast two S.S. shelves to carry monitors, E.C.G. machine etc.
- Good quality rustfree S.S. should be used.
- Should have suitable size castors of noise free with flexible transportation with easy operation.
- Source : Indigenous/ Imported

Specification of Cardiac Monitor Cum Defibrillator

- Should be a low energy Biphasic Defibrillator, monitor with recorder, having capacity to arrest all arrhythmias with multiple selectable energy levels maximum 200 joules.
- Should have facility to disarms after 30 seconds.
- Should work on manual and automatic external defibrillator (AED) mode with voice prompt.
- Should monitor ECG through paddles, pads and monitoring electrodes.
- Should defibrillate through pads and paddles.
- Should be capable of doing synchronized cardio version through paddles.
- Should have a built in 50mm strip printer.
- Should have charging time of less than 5 seconds for maximum energy.
- Should have bright LCD display for viewing messages and ECG waveform of 4 seconds.
- Should have external paddles with paddles contact indicator- for good paddle contact.
- Should have event summary facility for recording and printing atleast 50 events and 50 waveforms.
- Should have configurable shock protocol, set up mode and auto self test.
- Should have configurable heart rate alarm limits.
- Should have facility to store patient data on data card typically more than 90 minutes of patient ECG & events.
- Should have sealed battery capable of usage for atleast 90 minutes or 40 discharges.
- Should have capable of printing reports on event summary, configuration, self test, battery capacity etc.
- Should have facility for self test/ check before usage and set up function.
- Should have SpO2 facility.
- Should have transcutaneous (external) demand & fixed mode pacing.
- Should be FDA/CE/ISO/BIS approved
- Should agree on 1yr. warranty with at least 5 year AMC/ CMC and availability of spares for at least 8 year.
- Source : Indigenous/ Imported

Specification of Respiratory Gas Monitor.

- Monitor should automatically identify and quantify inspired & expired CO₂, O₂, N₂O and anesthetic agents (Halothane, Isoflourane, Enflourane, Sevoflurane and Desflurane)
- Should have colour TFT 5" or more with display of at least 3 waveforms in different colors (Selectable) and audio visual alarms.
- Should have mixed agent identification.
- To operate on power & battery, with battery strength indicator.
- Should be based on infrared technology base.
- Should display respiration waveform.
- Fast warm up time within minutes.
- Bright, real time display of numerical values and waveforms provides instant notification of changing patient status.
- Selectable default user menu.
- Should not require manual user calibration.
- Measurement accuracy should not be affected by alcohol or ketones.
- Concentration units should be mmHg; Vol. %; Torr, kPa.
- Should be compatible with color VGA video displays and has large screen output capability.
- Flow rate; side stream; varying from 100ml/min to 200ml/min
- Should have atleast 24 hours of tabular & graphical patient data.
- Should have automatic occlusion clearing and auto zeroing.
- Conforms to international safety standards concerning medical devices, EC certificate; FDA/ ISO/ CE.
- Should provide 20 pieces of disposable accessories.
- Should agree on 1 yr. warranty with 5 years AMC/ CMC with availability of spares.

Specification of Immunoassay Analyzer

- Fully automatic random Access immunoassay analyzer based on chemiluminescence technology.
- On board reagent capacity of minimum 15 reagents.
- There should be a facility for continuous loading of all the accessories, reagents & consumables during operation to make it a true automation.
- There should be a facility for on board refrigeration for reagents to maintain stability.
- Should have emergency/ stat sample analysis facility.
- Throughput should be more than 80 tests per hour.
- Facility to load minimum 60 samples at one time with continuous loading facility.
- Should have real time QC software that provides real time statistical, analysis with L J charts & storage of L J charts.
- Should be equipped with barcode reader facility for samples & reagents
- The samples should be directly placed in primary tubes or samples cups.
- Should be able to process pediatric samples.
- Should be able to perform following profiles thyroid profile, fertility profile, tumor markers profile, cardio vascular profile, infectious diseases including blood viruses, diabetes profile, anemia profile, bone, allergy, adrenal/ pituitary, growth hormone.
- Probe should have liquid level sensor.
- Facility for real time clot detection and bubble detection
- Should be user friendly with touch screen facility, window based.
- Precalibration for at least 2 weeks.
- Should have separate probes for reagents and sample.
- Should show status of on board inventory
- Should have facility for bidirectional interfacing with HIS & LIS so that reports can be sent online to referring departments
- Should be supplied with appropriate UPS.
- Company should quote for reagent pack indicating volume, cost, no., of tests which can be performed in the reagent pack & should be willing to freeze the prices for all reagents, controls, calibrators, disposables, washers, probes & sensors for a minimum period of 2 years.
- Cost per test should be calculated on the basis of reagents, washers, consumables, cuvettes, cups & calibrator for the following tests. (1) T3 (2)T4 (3)FT3 (4)FT4 (5)TSH (6)FSH (7)LH (8) Prolactin (9)Cortisol (10)Insulin (11) Testosterone (12)Growth Hormone (13)CA 125 (14)PSA (15)CEA (16)Ferritin (17)B12.
- Cost should include for installation commissioning & training to the user department. (Minimum 5 sessions).
- Data storage minimum 10,000 patients
- Warranty 2 years
- AMC/CMC year wise for 5 years after expiry of warranty
- Should have adequate after sales service back up in Delhi
- Startup kits each of T3, T4, TSH, FSH, LH.

Specification of Fully Automatic Biochemistry Analyzer

- Fully automatic completely open, multichannel random access, completely walk a way, directs reading system.
- Throughput of minimum (photometric) 400 tests/ hour without ISE
- Capable of doing routine biochemistry (TDM).
- Equipment should have option for calculated parameters.
- Assay type available: End point, initial rate, kinetic, differential, bichromatic, turbidometry
- Minimum 60 sample position with continuous loading facility
- On board refrigeration facility for reagent, sample & calibrator.
- Dedicated stat table.
- Sample container should be primary tubes or sample cups (normal and pediatric).
- Sample type: serum, plasma, urine CSF.
- On board refrigerated reagent position should be minimum 60
- Reaction cuvette should be permanent hard glass reusable with on board washing.
- Photometer should be multi wavelength diffraction grating photometer with minimum 12 wavelength ranging from 340-800nm mono & bichromatic.
- On board laundry facility with multiple stage washing station
- Quantity control- should be real time individual & cumulative with storage of L J charts
- Reagent probe with liquid level sensor.
- Clot detection, bubble detection and crash prevention facility.
- Reagent volume should be < 250ul.
- On board facility for mixing of reagent.
- Separate probes for reagent and sample.
- Appropriate compatible water processing plant.
- Software should be window based & user friendly.
- Facility for auto dilution & autore run.
- Bar code reader facility for samples & reagents
- PC based sample testing orders & facility for print out (pentium based PC) colour monitor.
- Bidirectional interfacing with HIS & LIS.
- Two years comprehensive warranty
- Quotation for AMC/ CMC for a period of minimum 5 years after expiry of warranty.
- Compatible online UPS system
- Data storage of minimum 50,000samples
- Company may visit hospital site for water supply & electrical requirement in order to quote suitable UPS & water treatment plant.
- Cost should include F.O.R. installation commissioning & training to the user department
- On board reagent inventory.
- Company should quote the price for controls, calibrators & washing solution required for following parameters: - glucose, urea, creatinine, bilirubin (total & direct), AST, ALT, S.alk. phosphatase, total protein, albumin, cholesterol, triglycerides, uric acid, GGT, LDH, lipase, HDL cholesterol, LDL cholesterol, serum amylase
- Company should also quote cost per test of the above parameters.
- Company should quote for reagent pack indicating volume cost & no. of tests per pack.
- Company should provide backup instrument in case of technical fault.
- Company should be willing to freeze the cost of reagents/ calibrators/ consumables at least for a period of two years.
- Standing in the market more than 10 years (manufacturing)
- The company should provide start up kits for Glucose, Urea, Creatinine, Bilirubin (Total & Direct), AST, ALT, S. Alkaline Phosphatase, Total Protein, Albumin, Cholesterol, Triglycerides, Uric Acid alongwith appropriate amount of control, calibrate and washing solution.

Specification of Fully Automatic 5 part Differential Hematology Analyzer.

- Fully automatic five part differential hematology analyzer.
- Automatic start up shut down and multichannel analysis mode.
- Should give following parameter: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, Platelet, Neutrophil %, lymphocytes %, Monocyte %, Eosinophil %, Basophil %, Neutrophil #, Lymphocytes #, Monocyte #, Eosinophil #, Basophil #, RDW-SD/SV, MPV, PCT, PDW.
- Random access discrete analysis mode CBC, CBC + differential.
- Should have histograms for WBC, Platelet, RBC. Scattergram for differential.
- Throughput should be minimum 80 samples/ hour.
- Principles of working should be impedance/ flow cytometry.
- Should have predilution mode.
- Should have bar code generation and reader facility.
- Should have whole blood open vial and closed vial mode.
- Should have inbuilt auto loader for upto 50 samples or more at a time .
- Samples volume should be low for CBC differential mode.
- Quality assurance system with manufacturer to provide calibration of control to meet international standards. L J plot and base files should be available.
- Should have automatic probe wipe mode.
- Should have stat sample facility for emergency sample.
- Automatic clot protection technology.
- Should have appropriate UPS.
- Should have window based software PC with laser printer.
- Comprehensive warranty for 2 years.
- Should have software for storage of upto 10000 or more sample data with histogram and scatter gram.
- Reagent of up to 10000 tests to be provided by the company.
- Flagging should be available for all abnormal parameters.
- All tubings, rubbers, bulbs and all accessories to be provided for the warranty period.
- Volume of reagents consumed per cycle and with start up and shut down along with cost to be provided.
- Certificate to be enclosed for:
 - i) Supplier should maintain regular supply of essential reagents for smooth performance of equipments without any interruption for at least next 5 years.
 - ii) Should have good no. of installation in Delhi.
 - iii) Should have Delhi based excellent service back up with readily available spares with a certificate from manufacturer for availability of spare for at least 5 years after expiry of warranty.

1. **SPECIFICATIONS OF NASAL ENDOSCOPE AND INSTRUMENTS FOR FESS:-**

S.N.	Name of Equipment	Qty.
------	-------------------	------

1.	Nasal Endoscope-Hopkins Rod System-4 mm. 0 degree wide angle, straight forward, autoclavable	01
2.	Nasal Endoscope-Hopkins Rod System -4 mm. 30 degree wide angle, straight forward, autoclavable	01
3.	Nasal Endoscope-Hopkins Rod System -4 mm. 70 degree wide angle, straight forward, autoclavable	01
4.	Cannula with fenestrated Beak and Trocar for sinoscopy ID 5 mm, length 8.5 -10 cm	01
5.	Telescope handle round for use with 4mm scope	01
6.	Sickle knife- pointed, 19 cm	01
7.	Sickle knife- blunt, 19 cm	01
8.	Antrum Punch,4.5mm,rotateable,working length 11cm,Tubular	01
9.	Scissor Tubular Nasal-Straight	02
10.	Scissor Tubular Nasal-Left	01
11.	Scissor Tubular Nasal-Right	01
12.	Scissor Tubular Nasal-Up	01
13.	Quote prices for the insert tips of items at Sr. No 9 to 12	
14.	Frontal Sinus J Curette: Kuhn Bolger, Small-Oval, Forward cutting 55 °curved 19cm	01
15.	Antrum curette forward cutting, length 19 cm	01
16.	Antrum curette Backward cutting, length 19 cm	01
17.	Antrum curette Oval size 1,Length 19cm	01
18.	Antrum curette Oval size 2,Length 19cm	01
19.	Antrum curette Oval size 3,Length 19cm	01
20.	Curette: Double ended 90 Degree 19cm	01
21.	Curette: Double ended 90 Degree 7.5cm	01
22.	Frontal sinus Bougie:2.5 mm,14.5 cm	01
23.	Frontal sinus Bougie:3 mm ,14.5 cm	01
24.	Frontal sinus Bougie:4 mm,14.5 cm	01
25.	Suction cannula: OD 2.5 mm,curved 15 cm	01
26.	Suction cannula: OD 3 mm,curved 15 cm	01
27.	Suction cannula: OD 2.5 mm,14.5 cm	01
28.	Suction cannula: OD 3 mm,14.5 cm	01
29.	Blacksley Ethmoid Forceps 3.5 mm,length 12.5 cm,straight	01
30.	Blacksley Ethmoid Forceps 3.5 mm,length 12.5 cm,45 degree	01
31.	Blacksley Ethmoid Forceps 3.5 mm,length 12.5 cm,90 degree	01
32.	Blacksley Ethmoid Forceps 4.5 mm,length 12.5 cm, straight	01
33.	Blacksley Ethmoid Forceps 4.5 mm,length 12.5 cm, 45 degree	01
34.	Blacksley Ethmoid Forceps 4.5 mm,length 12.5 cm,90 degree	01
35.	Blacksley Ethmoid Forceps Through cut 3mm,straight length 12.5 cm, solid	01
36.	Blacksley Ethmoid Forceps Through cut 3mm,45 degree,length 12.5 cm, solid	01
37.	Blacksley Ethmoid Forceps Through cut 3mm,90 degree,length 12.5 cm, solid	01
38.	Nasal Antrum Probe: 19.05 cm	01
39.	Kerrison Punch 45 degree up 2 mm, straight	01
40.	Kerrison Punch 45 degree up 2 mm, curved	01
41.	FIBER OPTIC COLD LIGHT SOURCE (XENON) WITH FIBER OPTIC CABLE, Length not less than 210cm	Nil
42.	3 chip Endoscopic camera with connecting cable and monitor for use with nasal endoscope and endoscopic trolley.	Nil
43.	Fiber Optic Head Light with variable focus.	Nil

Warranty: Two Years

2. SPECIFICATIONS OF ENT MICROMOTOR DRILL SYSTEM WITH HAND PIECE & BURRS

ENT Microdrilling system

1. High speed not less than 40000rpm.
2. Dual speed control from control box as well as foot pedal.
3. Both modes forward and reverse cutting.
4. Inbuilt pump for irrigation.

Micromotor Hand Pieces

1. Rated for minimum 40000 rpm.
2. Ball bearing type as to generate minimum heat & vibration.
3. With attached irrigation pipes.
4. Standard coupling for micromotor.
5. Straight hand pieces-02 Nos.
6. Contra angled hand pieces-02 Nos.

Burs

1. Stainless steel burrs cutting set of 12 varying from 0.7 mm to 7 mm standard length of 70 mm round.
2. Diamond burrs complete set of six varying from 2.3 mm to 7 mm length 70 mm, round.
3. Oil spray for hand pieces with Nozzle.
4. Warranty : Two Years.

3. TYMPANOMETER/IMPEDENCE AUDIOMETER:

Tympanometer, clinical tests to be performed:

- Tympanogram
- Stepped reflexes contra and IPSI
- Reflex latency.
- Reflex decay.
- ET function with perforation, without perforation.

Specification:-

- Probe tones.
- 226 Hz (85 dB SPL +/- 1.5 dB)
- 678 Hz (85 dB SPL +/- 3.0 dB)
- 1000 Hz (75 dB SPL +/- 3.0 dB)
- Accuracy: +/- 1%

Pressure measurements:

- Range: +200 to -600 daPa

Reflex measurements

- Stimuli: 250 Hz, 500 Hz, 1k, 2k, 4k.
- Intensity range: 35 to 120 DB HL in 5 steps.
- Step accuracy: +/- 5dB
- Computer interface
- Built in display and printer
- To be included: probe assembling, ear tips, printer paper.
- Should have facility for tympanogram, stepaedral reflexes, Eutachian tube function.
- All accessories to carry out above tests to be included.
- Warranty : Two years

4. SPECIFICATIONS OF PURE TONE AUDIOMETER:

1. Computerized digital having two independent channels
2. Test frequency : 250Hz to 16000 Hz (High frequency Audiometry)

3. Intensity range : -10 dB to 120dB
4. Headphone : TDH 39 with proper sealing to reduce environmental noise.
5. BC : Up to 70 dB
6. Step size : 5, 10 dB
7. Masking : Free/Synchronous
8. Presentation : Pulse/ continuous
9. Special test : SISI
10. ICD Display
11. Response button
12. Power : Battery/ AC adapter/USB power
13. AC adapter & data cable
14. Data transfer to PC application
15. Software CD
16. Printer
17. Warranty ; Two Years

5. ENT EXAMINATION UNIT

- 1 Hydraulic / motorized patient chair with forward / backward & upward / downward maneuverability with controls in chair and main unit with comfortable back and hand rest.
- 2 Doctor's chair: revolving & moving type on sturdy casters with adjustable height good quality & finish.
- 3 Powerful suction pump ½ Horse power Crompton or Equivalent motor, low noise pump block with oil free suction motor to operate it simultaneously.
5. Spray tips for liquid medicine.
6. Preheating system, setting heating time to off automatically heating range standard as per requirement.
7. Backlit View box for single film.
8. Secretion collection container with mechanical overflow protection and bacterial filter
9. Sprayer : curved 2 pcs, straight 2 pcs
10. Suction device : 2 pcs
11. Blow device : 2 pcs
12. Projection lamp : 2 pcs ≥ 50 W illumination
13. Tray : 1 pc (36 x 27 cms)
14. 14 inch LCD monitor: 1 pc. Wide screen with 1080p resolution.
15. Cold light source : 1pc Halogen 250 W dual lamp, with air cooling with 3.5 mm fiber optic cable.
16. CCD camera : single chip with AV output, auto and manual white balance.???
17. Zero degree Sinoscope : 1 pc wide angle of 4 mm, autoclavable, working length 18 cm, with $\geq 115^\circ$ field of view??sheath
18. Otoscope : 1 pc , white halogen light with seigel's attachment.
19. Flexible fiber optic pharyngolaryngoscope : 1 pc Flexible fiber optics, Working length ≥ 350 mm, with total length ≥ 550 mm, Outer diameter 4.5 mm / 2.2 mm, Range of tip movement : up $\geq 130^\circ$, down $\geq 130^\circ$ with instrument inner channel diameter \geq mm, Optical system : - direction of view 0° , field of view $\geq 70^\circ$, Cost to be quoted for future purchase
20. Extended instrument storage, storage box
21. Head light : 5 W LED or Xenon or halogen with ≥ 2 m fiberoptic cable
22. Microscope : co-axial fiberoptic illumination by a cold light source having a halogen lamp of not less than 12v/100w, Objective lenses having focal length of 200mm, Binocular, inclinable 60 degree viewing tube, f=176mm., Wide field, high eye point eyepiece with integrated eyecups having a minimum magnification of 12.5X, Five step

manually adjustable magnification changer with magnification factor of 0.4,0.6,1.0,1.6 and 2.4. , Manual fine focusing device, Knob for manually adjusting interpupillary distance, Should have built in IR and UV filter. Back up lamp, Working on mains power supply of 220v.

23. Warranty : Two Years

The equipment should have add on provision for S. No. 13, 14, 15, 15 and 18

The company should quote the cost for individual items for add on purpose and the prices shall remain valid minimum period of one year for these items.