

**DEPARTMENT OF PEDIATRICS
ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

**LIST OF THE EQUIPMENT TO BE PURCHASED
THROUGH SHORT RATE ENQUIRY
UNDER 'PLAN' HEAD FOR THE FINANCIAL YEAR 2009-10.**

Dear M/s

Subject: Short Rate Enquiry for purchasing items.

A short rate enquiry is hereby floated for the following item required by the Department of Pediatrics:

<i>ITEMS FOR PURCHASE THROUGH DEPARTMENTAL SHORT RATE ENQUIRY</i>		
Sr. No.	Item Name	Quantity
1.	Automated equipment for HbA1c (on finger prick sample) and urine microalbumin	1
2.	Harpenden Stadiometer	1
3.	Microcentrifuge (Capillary)	4
4.	Ambulatory BP monitor	1
5.	Holtain's skin fold thickness callipers	2
6.	Insulin pumps with supply of consumables	2
7.	Bio Impedance Analysis meter	1
8.	Boiling water bath	1
9.	Shaker water bath	1
10.	Vortex	2
11.	Refrigerated bench top centrifuge	1
12.	Microfuge	2
13.	Electric burner	1
14.	Infant T-piece resuscitators	2
15.	Infantometer	8
16.	X Ray View Boxes	4

Quotation may please be addressed to Professor & Head, Department of Pediatrics, Room No. 3058, AIIMS, New Delhi-110029, in sealed envelopes and sent us by through post or by hand so as to **reach by 06 November 2009 by 5:00 p.m.**

The order will be given to successful bidder to supply the item.

Note:

1. Specification for each item has been attached
2. Quotation for each item should be sealed in separate envelopes.
3. Envelope should mention “item name.....” for which the quotation is being sent.

Terms and conditions

1. **Warranty/Guarantee: 5 years Comprehensive warranty including labour and spares**
2. **The company should provide demonstration on demand for the quoted model.**
3. **Payment will be made after satisfactory installation of the item.**
4. **Please also mention in the quotation :**
 1. **Name of the beneficiary**
 2. **Account No. of the beneficiary**
 3. **IFCS code of the bank/branch**

Dr. Pankaj Hari
Associate Professor
Faculty In-charge Deptt. Store

Dr. V K PAUL
Professor & Head

**DEPARTMENT OF PEDIATRICS
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**SPECIFICATION OF THE EQUIPMENT TO BE PURCHASED
THROUGH SHORT RATE ENQUIRY
UNDER 'PLAN' HEAD FOR THE FINANCIAL YEAR 2009-10.**

1. Equipment Name: Automated equipment for HbA1c (on finger prick sample) and urine microalbumin

Quantity: 01 (One)

Warranty/Guaranty: 5 years comprehensive warranty

Specification

1. System should be portable & easy to carry.
2. Instrument should be able to measure HbA1c and urinary microalbumin
3. Instrument should not take more than 3 minute test time.
4. No hidden cost for instrument calibration.
5. Instrument should be able to measure HbA1c with following points :
6. Measuring range: 3 – 18% HbA1c.
7. Sample volume: Not more then 5 µl Whole blood
8. Test Result within 3 minutes
9. No interference of haemoglobin variants of derivatives.
10. Instrument should measure urinary microalbumin with following points :
11. Measuring range: 5 – 200 mg/L albumin.
12. Sample Material: 50 µl urine
13. Test Principle: Solid phase, sandwich-format, immunometric assay using a gold-antibody conjugate.
14. Precision: 5 – 8%
- 15. Weight: < 600 g**
16. Display type: LCD
17. Power supply should be by rechargeable batteries with battery charger
18. The firm should provide all kits, reagents and other disposables needed for performing 150 HbA1c measurements and 75 urinary microalbumin measurements in a time bound manner depending on the shelf life of the kits

2 Equipment Name: Harpenden Stadiometer

Quantity: 01 (One)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification

1. This should be a counter recording instrument with an effortless counter-balanced movement.
2. It should give an accurate and direct reading using a high speed counter to the nearest millimetre, over a range of 600 to 2100mm.
3. Main frame should be rigidly made of light alloy.
4. It should be provided with adjustable wall brackets for mounting purposes.
5. Stadiometer head-block should operate via miniature ball-bearing rollers.
6. Movement should be free and without cross-play.
7. The firm should be able to give a demonstration of the equipment if asked for.

3. Equipment Name: Microcentrifuge (Capillary)

Quantity: 04 (Four)

Warranty/Guaranty: 5 years comprehensive warranty

Specifications:

1. Benchtop centrifuge for quick assessment of hematocrit on microcapillary blood samples
2. Rotation upto 16,000 rpm, adjustable in increments of 100
3. Timer settable in minutes, maximum preset 99 minutes
4. Safety lid-lock feature and emergency lid release
5. Motor overheating protection and imbalance shut-off
6. Digital display shows rpm and time
7. Angle rotor, 24 positions, maximum approx 16000 rcf
8. 2 hematocrit readers
9. Noise level less than 40 dB
10. Power requirements: 220 V / 50 Hz

Supplied with each unit:

1. 10 x pack of sealing compound for micro capillary tubes
2. 10 spare sets of fuses
3. Carbons: 5 pairs

4 Equipment Name: Ambulatory BP monitor
Quantity: 01 (One)
Warranty/Guaranty: 5 years comprehensive warranty

Specification

1. Should be portable and lightweight.
2. Should automatically measure BP and heart rate continuously in an ambulatory patient.
3. Should be provided with software for download of data in summary and graphical form with histogram and correlation analysis.
4. The data cable etc for download of the data to personal computer and any installation of software should be done. It should allow printing of data on ordinary printer.
5. Should be ISO/ CE certified.
6. Operation: Oscillometric
7. Pressurization should be via internal micro-pump
8. Display range: Pressure:0-320 mm Hg
9. Measuring range: Systolic 60-280 mm Hg (minimum division 1 mm Hg)
Diastolic 40-160 mm Hg (minimum division 1 mm Hg)
Heart rate 30-200/ minute
10. Clock display should be provided.
11. Temperature and humidity range for operation should be from 10- 40C and upto 85% relative humidity.
12. Accuracy: Pressure ± 3 mm Hg or $\pm 2\%$ of the measurement, Pulse rate $\pm 5\%$
13. Should take approximately 100 measurements/ day
14. Memory capacity should be >250 readings
15. Power supply should be via ordinary as well as Ni-Cd rechargeable batteries
16. Weight: < 250 g
17. Cuffs: Adult (20-31 cm) and small cuff (15-22 cm) should be provided.
18. Should be provided with good quality carry case.
19. The firm should be able to give a demonstration of the equipment if asked for.

- 5. Equipment Name: Holtain's skin fold thickness callipers**
Quantity: 02 (Two)
Warranty/Guaranty: 5 years comprehensive warranty

Specification

1. Should accurately measure subcutaneous tissue.
2. Measuring range: 0 mm to 48 mm.
3. Pressure between Anvils (constant): 10 gms/sq. mm.
4. Nett weight: 0.4 kg
5. Dial Graduation: 0.2 mm.
6. Supplied in a leatherette wallet
7. The firm should be able to give a demonstration of the equipment if asked for.

6 Equipment Name: Insulin pumps with supply of consumables

Quantity: 02 (Two)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification

1. It should be small, compact and comfortable.
2. Size should be comparable to a pager or cellphone.
3. Insulin concentration should be U-100.
4. Reservoir Size should be 300 units.
5. Weight should be <120g
6. Should be battery operable.
7. 10 extra batteries should be provided.
8. It should have the bolus wizard function (automatic calculator for meal (Bolus) dose)
9. There should be low reservoir alert (automatic at 30, 20 and 10 units remaining).
10. Alarms (beep and vibrate) for no insulin delivery and low battery
11. There should be temporary basal rate adjustment feature for 30 minutes to 24 hours (up to 48 basal rates should be possible).
12. Minimum possible basal rate should be of 0.05 U/hr
13. Bolus delivery should be possible as normal, square wave or dual Wave.
14. Dose delivery should be possible in increments of 0.05 U
15. Data cable and software for data uploading from the Insulin Pump should be provided
16. 20 complete sets of disposables (infusion tubings and insertion sets and needles) should be provided.

7 Equipment Name: Bio Impedance Analysis meter
Quantity: 01 (One)
Warranty/Guaranty: 5 years comprehensive warranty

Specification

1. Should measure bioelectrical impedance at a single frequency of 40-60 KHz
2. Should measure bioelectrical impedance in supine position with electrodes placed on hand as well as foot.
3. The instrument should be CE marked.
4. The instrument should be handy and portable with weight < 500 g (with batteries)
5. It should have LCD display.
6. It should measure body fat percentage with a resolution of 0.1%
7. The impedance range should be 200-1000 ohms
8. The accuracy of resistance measurement should be 1.00% +/- 4 across 350-1000 ohms
9. The test current should be of 0.5-1 mA.
10. The instrument should be battery operable.
11. The battery current should be 20 mA.
12. Disposables: 1000 electrode pads and 12 batteries should be provided.
13. A carrying case of good quality should be provided.
14. Software for entering patient's data with graphical display of results should be provided along with data cables etc for uploading data to personal computer.
15. The firm should be able to give a demonstration of the equipment if asked for.

8 Equipment Name: Boiling water bath

Quantity: 01 (One)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification:

1. Temperature boiling water bath, Microprocessor control, Over temperature protection, Preferably drip free cover holder, Pocket handles

2. Weight : Less than 10 kg
3. Interior Dimension W x D x H in. : 14 x 14 x 8
4. Tank capacity : Less than 20 Ltrs.
5. Tank body : Stainless steel
6. Temperature range : 5°C above ambient to 100°C
7. Temperature uniformity : +0.07°C
8. Temperature display : Digital
9. Electrical specification : Should run on 220 V units

9 Equipment Name: Shaker water bath

Quantity: 01 (One)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification:

- | | |
|----------------------------------------------|----------------------------|
| 1. Temperature range | : °C ambient +5 to 99 |
| 2. Stability (DIN 58966) | : °C \pm 0.1 |
| 3. Uniformity | : °C \pm 0.1 |
| 4. Display resolution | : °C 0.1 |
| 5. Liner-shaking speed | : Strokes/ min 40 to 400* |
| 6. Liner- stroke length | : mm 18 |
| 7. Display resolution | : Strokes/ min 1 |
| 8. Minimum working volume | : L 9 |
| 9. Tank dimension (l/w/h) | : mm 505/300/200 |
| 10. Shaking tray area | : mm 375 x 235 |
| 11. Overall dimensions (l/w/h) | : 560/ 330/370 |
| 12. Flask immersion, min/max | : mm 0 to 99 |
| 13. Heater power | : kW 1.4 |
| 14. Overall consumption | : kW 1.5 |
| 15. Safety Over temperature/low liquid level | : Fixed resettable cut out |
| 16. Electrical supply | : V 220-240 or 110-120 |
| 17. UT 200F universal flask tray | : Free |

Optional accessories

1. LS200 sloping lid
2. TT200F test tube tray
3. PF200 perforated tray

10 Equipment Name: Vortex
Quantity: 02 (Two)
Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification :

1. Variable speed control, touch or continuous operation
2. Optional heads and plateforms for various sized tubes from microfuge to large tubes and microplates larger tubes
3. Rubber suction cup feet
4. Speed range : 150-3000 rpm
5. Ambient operating range : +4° to 65°C
6. Dimensions (WxDxH) :12 x 15.5 x13 cm
7. Weight : less than 4 kg

11 Equipment Name: Refrigerated bench top centrifuge
Quantity: 01 (One)
Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification

1. Table top centrifuge for high volume applications
2. Temperature range -9 to + 40°C
3. Short spin key
4. Fast cool option & stand by cooling
5. Facility to put “at set rpm” function
6. 10 acceleration & 10 breaking ramps
7. More than 30 program memory
8. Ability to spin 1.5 ml to 400 ml 15 ml and 50 ml falcon tubes and oak-ridge tubes at 11000 rpm or more and 15000 g or more with fixed angle rotor
9. Adaptor should be available for volumes from 1.5ml, to 85ml in the fixed angle rotor. (such as 2ml, 7ml, 15ml, 18ml, 20ml, 30ml, 50ml)
10. The fixed angle and swing out rotor should accommodate both round bottom tubes as well as falcon tubes
11. Facility to run swing out rotor upto 50ml tube.
12. Should run PCR strip rotor (48x0.2ml/ 6x8 tube strip/ 6x5 strip)
13. Should run 30x1.5/2ml rotor
14. Should be approved from IVD (In vitro diagnostic)
15. Should have facility to validate speed temp and time with certified device

Supply of Rotors with the equipment

1. 50ml x 6 or 85ml x 6 tubes fixed angle rotor

Accessories with the rotor

1. Two sets of adapters (12 adapters) for 50 ml falcon tubes
2. Two sets of adapters (12 adapters) for 15 ml falcon tubes
3. One set of adapter (5 adapters) for 7 ml falcon tubes

12 Equipment Name: Microfuge

Quantity: 02 (Two)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification :

1. Compact centrifuge for speed upto 13,400 rpm
2. Rotor for 12 x 1.5ml 2 ml tubes
3. G value should be more than 12,000
4. Timer from 15 sec. to 30 mins.
5. Adaptors for 0.2, 0.4, 0.5 ml & 0.6 ml Microtainer tubes
6. Acceleration to reach maximum speed in 13 seconds
7. Breaking time maximum speed 12 seconds
8. Automatic door opening after the run
9. Brushless motor
10. Autoclavable rotor (121°C, 20 minutes)
11. Stainless steel roter lid with knurled nut
12. Weight less than 4.5 Kg.
13. Bore size should be 11 mm
14. Fixed angle rotor should be at 45°
15. Should confirm to IEC 1010-2-020 safety regulations.
16. Auto opening of lid after the run
17. Separate short spin button
18. Metal rotor housing
19. Rotor F-55-16-5-PCR, Including rotor lid, rmax: 4.9cm, 13,400 rpm= 9,840 g,
14,500
20. rpm=11,520 g

13 Equipment Name: Electric burner

Quantity: 01 (One)

Warranty/Guaranty: 5 years comprehensive warranty

Specification

The high power heated combined with a reflective internal stainless steel bowl produces a concentrated stream of Heat comparable with that of existing gas-powered Bunsen burners

Accessories: Allowing the user to operate the instrument safely in all types of experiments

Support rod

Protective grid,

S/S Plate

Flame gas/ 500ml

Petri dish support tray

Technical Specification

Dimensions (LxWxH) 31x20x11

Temperature : 37 to 929 degree Celsius

Weight : not more than 2 kg.

Diameter of heating area 130mm

14 Equipment Name: Infant T-piece resuscitators

Quantity: 02 (Two)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specifications:

1. Portable, weight less than 2 kg
2. Automated device for resuscitation of babies
3. Stand alone unit suitable for delivery room
4. Able to set PIP (5-70 cm) and PEEP (1-8 cm)
5. Manometer able to display real time pressure delivery (0 to 80 cm of water)
6. Adjustable pressure relief valve: 5-70 cm of water
7. Pressure safety valve
8. Able to use face mask as well as ETT
9. Able to deliver free flow of oxygen
10. Non-electric powered
11. FDA approved

Supplied each unit with

- Reusable circuits: 10 nos.
- Face masks: 10 different sizes

15 Equipment Name: Infantometer

Quantity: 08 (Eight)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specifications

1. Measuring length of babies and infants
2. Measuring length 33 to 100 cm
3. Graduation 1mm
4. Baby surface curved to place the babies in right position
5. Edges not sharp to prevent injury to the baby
6. The head and foot positioners lockable

16 Equipment Name: X Ray View Boxes

Quantity :04 (Four)

Warranty/Guaranty: 5 years comprehensive warranty

Technical Specification

1. Two in One (For two films size 14"X 17" each) with separate compartments- individual switching on should be possible.
2. It should have Acrylic make white sheet with two big fluorescent circular tubes wattage at least - 32 and second small fluorescent circular tube wattage at least- 22 with electronic ballasts for instant switching on.
3. It should have concealed film holding device with Cord & Plug.
4. The view box should be made of shock proof good quality material
5. The company should provide a demonstration.
6. Should provide 5 years warranty with spares and labour
