TAMIL NADU MEDICAL SERVICES CORPORATION LIMITED
(A Government of Tamilnadu Undertaking)
417, PANTHEON ROAD, EGMORE, CHENNAI – 600 008.
ISO 9001:2008 Certified Organisation
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Ref.: No.TNHSP/TNMSC/AG81/2012 **15.09.2012**

INVITATION FOR QUOTATIONS FOR SUPPLY OF GOODS UNDER SHOPPING PROCEDURES

From

Managing Director
Tamilnadu Medical Services Corporation Limited
417, Pantheon Road
Chennai – 600 008

To

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Dear Sirs,

Sub : INVITATION FOR QUOTATIONS FOR SUPPLY OF Tool Kits for Bio Medical Engineers

1. You are invited to submit your most competitive quotation for the following goods:-

Sl. No.	Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
1.	PATIENT SAFETY ANALYZERS	Vide Annexure -I	49 Nos	Within 3 weeks from the date of receipt of supply order by them	Vide Annexure -II	Not Required
2.	DIGITAL MULTIMETER WITH CLAMPMETER		49 Nos			
3.	SOLDERING IRON WITH WORK STAND		49 Nos			
4.	SOLDER WIRE AND SOLDERING FLUX		49 Nos			
5.	NOSE PLIER (WITH SPRING)		49 Nos			
6.	ADJUSTABLE WRENCH SPANNER		49 Nos			
7.	PIPE WRENCH (STILLSON TYPE)		49 Nos			
8.	SPANNER SET (DOUBLE OPEN END)		49 Nos			
9.	COMBINATION PLIER (STRAIGHT NOSE) (INSIDE & OUTSIDE)		49 Nos			
10.	CIRCLIP PLIER INNER (7 IN)		49 Nos			
11.	CIRCLIP PLIER OUTER (7 IN)		49 Nos			
12.	ALLEN KEY (SET)		49 Nos			
13.	SCREW DRIVER SET (with interchangeable tips)		49 Nos			
14.	BALL PEIN HAMMER (½ lbs)		49 Nos			

Sl. No.	Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
15.	CUTTING PLIER		49 Nos			
16.	SOCKET SET (with box)		49 Nos			
17.	DUST BLOWER		49 Nos			
18.	KNIFE WITH RETRACTABLE BLADE		49 Nos			
19.	WIRE STRIPPER & CUTTER		49 Nos			
20.	CANVAS TOOL BAG		49 Nos			

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US$ 117.70 towards the cost of the Tamil Nadu Health Additional Financing Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. **Bid Price**

a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
c) Sales tax in connection with the sale shall be shown separately.
d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
e) The Prices shall be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation.

5. **Validity of Quotation**

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

6. **Evaluation of Quotations**

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

(a) are properly signed ; and

(b) conform to the terms and conditions, and specifications.

The Quotations would be evaluated for complete set. Quotations not quoting all items (or) offering part quantity will be rejected.

Sales tax in connection with sale of goods shall not be taken into account in evaluation.

7. **Award of contract**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order.

8. Payment shall be made immediately after delivery of the goods.

9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

10. You are requested to provide your offer latest by 16.00 hours on 28/09/2012

11. Quotation will be opened at 16.30 hours on 28.09.2012 in the presence of bidders.

12. We look forward to receiving your quotations and thank you for your interest in this project.

Sd/-
General Manager (E)

FORMAT OF QUOTATION

Sl. No.	Description Goods	Specifications	Qty	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
1	PATIENT SAFETY ANALYZERS	As per Annexure I	49	Nos			
2	DIGITAL MULTIMETER WITH CLAMPMETER		49	Nos			
3	SOLDERING IRON WITH WORK STAND		49	Nos			
4	SOLDER WIRE AND SOLDERING FLUX		49	Nos			
5	NOSE PLIER (WITH SPRING)		49	Nos			
6	ADJUSTABLE WRENCH SPANNER		49	Nos			
7	PIPE WRENCH (STILLSON TYPE)		49	Nos			
8	SPANNER SET (DOUBLE OPEN END)		49	Nos			
9	COMBINATION PLIER (STRAIGHT NOSE) (INSIDE & OUTSIDE)		49	Nos			
10	CIRCLIP PLIER INNER (7 IN)		49	Nos			
11	CIRCLIP PLIER OUTER (7 IN)		49	Nos			
12	ALLEN KEY (SET)		49	Nos			
13	SCREW DRIVER SET (with interchangeable tips)		49	Nos			
14	BALL PEIN HAMMER (½ lbs)		49	Nos			
15	CUTTING PLIER		49	Nos			

Sl. No.	Description Goods	Specifications	Qty	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
16	SOCKET SET (with box)		49	Nos			
17	DUST BLOWER		49	Nos			
18	KNIFE WITH RETRACTABLE BLADE		49	Nos			
19	WIRE STRIPPER & CUTTER		49	Nos			
20	CANVAS TOOL BAG		49	Nos			
	TOTAL						
	Sales Tax						

Gross Total Cost : Rs. .....

Signature of Supplier

ANNEXURE-I

TOOL KITS FOR BIO-MEDICAL ENGINEERS
TECHNICAL SPECIFICATION

A.TECHNICAL SPECIFICATION OF PATIENT SAFETY ANALYZERS

a. Scales & Ranges

- Should have Earth / Ground resistance of 0-19.99 Ohms of accuracy + /- 1% of reading
- Should have a current source amplitude of 1 A dc(+/-10%)

b. Leakage Current

- Should have a measurement range of 0-1999 µ Amps, of type true RMS with an accuracy of
- +/- 1% of reading (± 2 µA) @ dc and 25 Hz to 1000 Hz
- +/- 2.5% of reading, +/- 1 digit @ dc and 1.00 KHz – 100 KHz
- +/- 5.0% of reading, +/- 1 digit @ dc and 100 KHz – 1.00 MHz
- Should have a frequency response of DC to 1 MHz (-3 dB)
- Dual lead leakage 500 µA to 8000 µA

c. Voltage

- Should have a range (mains voltage) 90 V ac to 264 V ac rms & 180 V ac to 264 V ac rms
- Should have an accuracy of ± 2 % of reading

d. Load Current Measurement:

- Should have a **load current** measurement of 1.00 to 19.99A with an **accuracy** of +/- 3% of reading

e. Insulation Measurements

- Should have a insulation **measurement range** from 0.5 MΩ to 100 MΩ
- Should have an **accuracy** of +/- 2% of reading for 0.5 MΩ to 20 MΩ and above 20 MΩ, +/- 4% of reading
- Should have a **voltage source amplitude** of 500 V dc (± 10 %)

f. Mains Power

- The Operating range should be from 90 min to 264 max V ac (47 Hz to 63 Hz)
- Accessible voltage range : the accessible voltage range should be from 0V ac to 300 V ac rms
- Power ratings : Should have a power ratings from 16 A at 264 V max

g. Environmental Specs

- Should have an Operating temperature of 10 °C to 40 °C (50 °F to 104 °F)
- Should have a storage temperature of -25 °C to 50 °C (-13 °F to 122 °F)
- Should be less weight not more than 1.5kgs
- Should have a LCD display not less than 3.5inch

B. TECHNICAL SPECIFICATION OF DIGITAL MULTIMETER WITH CLAMPMETER

a. DC Voltage

- Should measure DC voltage in the range of 200mV to 1000 V
- Should have +/- 0.3% to +/- 0.5% accuracy of reading
- Should have a resolution ranging from 100 uV to 1V (for 200mV to 1000V)

b. AC Voltage

- Should measure AC voltage in the range of 200mV to 750 V
- Should have +/- 0.8 % to +/- 1.2% accuracy of reading
- Should have a resolution ranging from 100 uV to 1V (for 200mV to 750V)

c. Resistance

- Should measure resistance in the range of 200 ohms to 2M ohms
- Should have +/-0.5% to +/-1.0% accuracy of reading
- Should have a resolution ranging from 0.1 ohms to 10 K ohms.

d. Dc Current

- Should measure DC current in the range of 200uA to 20A
- Should have +/- 0.5% to +/- 2 % accuracy of reading
- Should have a resolution of 0.1uA to 100mA

e. Ac Current

- Should measure AC current in the range of 200uA to 20A
- Should have +/- 1.0 % to +/- 3 % accuracy of reading
- Should have a resolution of 0.1uA to 10mA

f. Frequency

- Should measure frequency in the range of 2 KHz to 20 MHz
- Should have +/- 1.0% accuracy of reading
- Should have a resolution of 1 Hz to 10 KHz

g. Capacitance

- Should measure capacitance in the range of 2nF to 20uF

- Should have +/-2.0% to +/-4.0% accuracy of reading
- Should have a resolution of 1pF to 100nF

h. Diode And Audible Continuity Test

- Should measure forward resistance of a semi conductor junction in K Ohms.
- A resistance less than 90 Ohms should be indicated through a built in buzzer.

i. General

- Should have a maximum capacity of 20A AC & DC input current.
- Should have a clamp opening size of at least 45mm
- Should have a maximum display of 1999 counts (3 ½ digit) with polarity indication.
- Should have reading time of 1-2 reading per second.
- Should have a operating temperature of 0°C to 40^{0}C.
- Should have a Storage temperature of -10°C to 50°C.
- Should have a pair of test leads and a spare fuse supplied.
- Should not weight more than 500g.

C. TECHNICAL SPECIFICATION OF SOLDERING IRON WITH WORK STAND

- Should have a bit size of 0.5mm point.
- Should also provide a replaceable pointed bit of size 1.0mm.
- Should not consume power more than 15W.
- Should have operating voltage of AC 230V.
- Should have a ground resistance of less than 2 Ohms.
- Should have a ground potential of less than 2mV.
- The point should withstand a temperature of of about 350°C.
- Should not have a leakage current of more than 1.5uA

D. TECHNICAL SPECIFICATION FOR SOLDER WIRE AND SOLDERING FLUX

- a melting range of 180 and 190 °C (360 and 370 °F)
- 1/32 inch (.03) lead free/ rosin-cored solders
- oil based or Acid types soldering flux paste

E. TECHNICAL SPECIFICATION OF NOSE PLIER (WITH SPRING)

- Should be a high quality forged steel with normal polished finish.
- Should have a spring with stainless steel sheet.
- Should be of approx. length 140 to 160mm
- Should have plastic coated handles.

F. TECHNICAL SPECIFICATION OF ADJUSTABLE WRENCH SPANNER

- Should be made of Chrome/ chrome vanadium steel conforming to IS6149 / DIN3117
- Should have corrosion free black phosphate finish.

- Should be of approx length 13.00 to 15.00 inch
- Should have a drive size of 1.06 inch
- Should not weigh more than 1.5kgs.

G. TECHNICAL SPECIFICATION OF PIPE WRENCH (STILLSON TYPE)

- Handle should be powder coated forged chrome vanadium steel.
- Should conform to IS 4003 (I) /IS4503 (II) /GGG-W-651d
- Should be of approx length 12.00 to 14.00 inch(300mm to 350mm)
- Should have a pipe capacity of min 14mm to to max 65mm
- Should not weigh more than 1.5 kgs.

H. TECHNICAL SPECIFICATION OF SPANNER SET (DOUBLE OPEN END)

- Should be made up of chrome plated / chrome vanadium steel conforming to IS2028 /DIN3110-899
- Should consist of 12 spanners of size from 6*7mm, 8*9mm , 10*11mm , 12*13mm , 14*15mm , 16*17mm , 18*19mm , 20*22mm , 21*23mm , 24*27mm , 25*28mm , 30*32mm

I. TECHNICAL SPECIFICATION OF COMBINATION PLIER (STRAIGHT NOSE) (INSIDE & OUTSIDE)

- Should be made up of chrome plated / chrome vanadium steel conforming to IS3650 / IS2615
- Length : 200 mm or 8 IN
- Should have ergonomic rubberized soft grip handles.
- Should conform to DIN standards.

J. TECHNICAL SPECIFICATION OF CIRCLIP PLIER INNER (7 IN)

- Should be made up of chrome plated / chrome vanadium steel conforming to IS2028
- Length : 175 mm
- Should have ergonomic rubberized soft grip handles.
- Should have leaf spring reverted to handle.
- Should conform to DIN standard.

K. TECHNICAL SPECIFICATION OF CIRCLIP PLIER OUTER (7 IN)

- Should be made up of chrome plated / chrome vanadium steel conforming to IS2028
- Length : 175 mm
- Should have ergonomic rubberized soft grip handles.
- Should have leaf spring reverted to handle.
- Should conform to DIN standard.

L. TECHNICAL SPECIFICATION OF ALLEN KEY (SET)

- Sizes : 1/16” to ½ “ (11pcs) ; 2mm to 15 mm ;
- Should be made of carbon steel and conform to IS3082 / DIN ISO 2936

M. TECHNICAL SPECIFICATION OF SCREW DRIVER SET (with interchangeable tips)

- Handle Material: PVC
- 1/4" Hex Shank Holder
- Material: Chrome- Vanadium.
- Driver Shaft length : 40-60 mm
- Tip type : Slot, Cross Head, Pozidriv, Torx
- Tips material : Chrome-vanadium

Slot tips of size : 0.5x 3.0mm, 0.8 x5.5mm,1.2x8.0mm
Philips Cross Slot tips of size : #000,#00, #0, #1, #2, #3,#4
Pozidriv tips of size : #0, #1, #2, #3, #4
Star / torx tips of size: T3-T10,T15, T20, T25.

N. TECHNICAL SPECIFICATION OF BALL PEIN HAMMER (½ lbs)

- Should conform to IS 841 standard.
- Should not weigh more than ½ lbs.

O. TECHNICAL SPECIFICATION OF CUTTING PLIER

- Preferable Length: 4.00”
- Should have a Jaw Length of ½ “
- Should have a Jaw thickness of ¼ “
- Capacity : 0.4”
- Should Conform to IS4378

P. TECHNICAL SPECIFICATION OF SOCKET SET (with box)

- Should be made up of Chrome Vanadium Steel.
- Should consist of a ½ “reversible drive ratchet.
- Should consist of metric sockets of size : 5-12mm
- Should consist of Hexagonal bits of size : 2.5 , 3, 4, 5, 6mm
- Should consist of slotted bits of size: 4, 4.5, 5.5, 6.5mm
- Should consist of Pozidriv bits of size : Pz1, Pz2
- Should Consist of Philips bits of size :Ph0 to Ph3.
- Should consist of Torx bits of size : Tx15, Tx20, Tx25, Tx27, Tx30, Tx40.

Q. TECHNICAL SPECIFICATION OF DUST BLOWER

- Should be a portable electric dust blower.
- Should have a blowing volume of atleast 2.5m^3/min.
- Input Power: Should not require more than 550W.
- Should have a no load speed of 0-16000rpm.
- Voltage: 230 V

- Frequency :50Hz
- Should not weigh more than 1.5kgs

R. TECHNICAL SPECIFICATION FOR KNIFE WITH RETRACTABLE BLADE

- Blade length must be available for 15 to 20 mm depth of cutting.
- Multiple blade positions allowing wider use of cutting application.
- Should be of approx. length 140 to 160mm
- Should have provision for replaceable blade.
- Local availability of replaceable blade
- Should be having a cast body.
- Should be a light weight.

S. TECHNICAL SPECIFICATION FOR WIRE STRIPPER & CUTTER

- Type : Self Adjusting.
- Wire Stripper & Cutter (0.5mm to 6mm Dia.)
- Black Oxide Finish with Extra heavy rivet having First grade Shock proof sleeve
- Stripping Range : 0.25 to 6 Sq.mm
- Should be of approx. length 100 to 160mm

T. TECHNICAL SPECIFICATION FOR CANVAS TOOL BAG :

- **Material : Canvas**
- **Length: 410mm**
- **Width : 315mm**
- **Height : 140mm**
- **Should have three compartments with zip to store tools.**
- **Should be durable and reusable.**

ANNEXURE-II

Place of Delivery

Project Director
Tamil Nadu Health Systems Project
DMS Annex Buildings
DMS Campus,
Teynampet,
Chennai.