

E-5

**PROCUREMENT OF GOODS
UNDER
NATIONAL SHOPPING PROCEDURES**

*(For Contracts valued less than the
equivalent of US \$30,000 each)*

**INVITATION FOR QUOTATIONS FOR SUPPLY OF
EQUIPMENT UNDER NATIONAL SHOPPING PROCEDURES**

Sub : INVITATION FOR QUOTATIONS FOR SUPPLY OF SHORTWAVE DIATHERMY MACHINE, NERVE AND MUSCLE STIMULATOR, ULTRASONIC THERAPY UNIT , INTERFERENTIAL THERAPY UNIT & PARAFFIN WAX BATH _____

1. The Government of India has received a credit (Credit No –3867 IN) from the World Bank in various currencies towards the cost of the Rajasthan Health Systems Development Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for bids is issued.
2. The Project Director, RHSDP invites sealed bids from eligible bidders for supply of Equipments listed below for RHSDP-

Item No.	Brief Description	Quantity	Delivery Period	Bid Security (in Rs.)	Warranty
G28	Shortwave Diathermy machine	3	30 days	12000	24 months
	Nerve and muscle stimulator	6			
	Ultrasonic therapy unit	6			
	Interferential therapy unit	3			
	Paraffin wax bath	6			

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 by the contractor under the contract shall be included in the total price.
- c) 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.

d) The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one 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) confer to the terms and conditions, and specifications.
- (c) Past performance
- (d) EMD in form of D.D./ Bankers Cheques in favour of PD, RHSDP payable at Jaipur as per para 2
- (e) The Quotations would be evaluated together for package G28.

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. The successful bidder shall furnish the performance security @ 5% of the contract value in form of DD/ Banker's cheque or Bank guarantee and shall remain valid up to after 60 days completion of warranty period.

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 purchase order.

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

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

FORMAT OF QUOTATION *

Sl. No.	Description Goods	Qty.	Quoted Unit Rate in Rs.	Total Amount		VAT/ Sales tax*
				In Figures	In Words	
1	Shortwave Diathermy machine	3				
2	Nerve and muscle stimulator	6				
3	Ultrasonic therapy unit	6				
4	Interferential therapy unit	3				
5	Paraffin wax bath	6				

Note: VAT/ sales tax should be quoted separately. Evaluation will be done on Unit price.

Total Amount : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

Signature of Supplier

SHORT WAVE DIATHERMY

- Short-wave Power: - 500 Watts max.
- Timer 0 to 30 minutes (Delivery times)
- Pulse & continuous mode
- Intensity control in minimum 5 steps with the help of Knob/button.
- Should have ampere meter
- Pulse per second from 20 to 200
- Disc electrodes & Pad electrode
- Tuning Knob
- Electrical input: 220 V \pm 10% AC, 50Hz
- Should be provided with suitable Constant Voltage transformer.
- Should comply with relevant IS or equivalent GMP and safety standards

Technical Specification of Microcontroller Based Muscle Stimulator

- Micro controlled circuit.
- Programmable LCD display with easy read-out.
- Simultaneous separate treatment to two patients.
- More than 350 programmable output currents.
- Feather touch key operations.
- Programmable 0 – 99 min count down timer with LCD display.
- Inbuilt system ensures auto switch OFF of the unit when treatment time elapses.
- SMPS power management technology and spike suppressor.
- Separate output for Galvanic (G/IG/TNS) and Faradic (F/SF) currents.
- Galvanic Current DC.
- 31 user selectable pulse durations for IG.
- 11 user selectable pulse frequencies for IG.
- TNS output selectable from three modes.
3 modes of TNS (Transcutaneous Electrical Nerve Stimulator) include,
 - **Continuous Mode** : Continuous pulse trains are delivered with user selectable pulse rate from 20 to 125 pulses per second.
 - **Burst Mode** : 2 bursts of 10 pulses are emitted per second with pulse width of 200usec.
 - **Modulated Mode** : Pulse trains are delivered for 2 Sec and rest for 1 sec.
- Faradic / Surge faradic output facility.
- Surge duration selectable in steps of 0.5 sec.

Technical Specifications

- Power supply : 220V AC / 50Hz
- Surge duration : selectable 0 to 9.5 sec
- Surge delivered : selectable 0 to 9.5 sec
- TNS output with 3 different mode selection.

Technical Specification of Ultrasonic Therapy Unit

Model: Microcontroller Based

Timer: This is a 60 min. count down digital timer used to set the treatment time by pressing switches labeled “F” for fast reduction and “S” for slow reduction. When display shows “Zero” reading, the power output gets cut-off with an audible buzzer sound to indicate completion of treatment.

Power Density: This a digital display for Power density. Desired power output (Zero to Three) in Watts / sq. cm can be set by the control knob provided just below the display.

Selector Switch: Feather touch keys are provided to select the mode of operation i.e. continuous, Pulse 1, Pulse 2, Pulse 3, or Pulse 4 which can be seen by the corresponding visual indication for each mode.

Intensity Control: This is provided to increase the power output of Ultrasound waves, which correspondingly is seen on the Wattmeter.

Output: The output signal is available across at this terminal. The other end of the Ultra Sound applicator is connected here.

Pulse Selection:

It must have five pulse modes.

Pulse 1 : The output rate is 1:1 i.e., 2 msec ON and 2 msec OFF.

Pulse 2 : The output rate is 1:3 i.e., 2 msec ON and 6 msec OFF.

Pulse 3 : The output rate is 1:5 i.e., 2 msec ON and 10 msec OFF.

Pulse 4 : The output rate is 1:10 i.e., 2 msec ON and 20 msec OFF.

Technical Specifications

Power Output	:	0-3 Watts per sq. cm.
Continuous Mode	:	0-15 Watts
Pulse/s Mode	:	0-21 Watts
Frequency	:	1 MHz
Power Supply(typical)	:	220 V AC / 50 Hz single phase.

Technical Specification of Interferential Therapy Unit

- Micro controlled feather touch unit.
- Basic and programmable models.
- 0 to 99 minutes digital timer provided.
- 2 channel output with balance adjustment on display.
- Digital display for program, intensity & beat frequency.
- Three different modes of operation.
- Three different sweep patterns.
- Isolated outputs.
- User friendly, easy operation.
- Auto cut-off feature with audio alarm.
- Digital display and Up Down keys for
 - **Treatment time** – Time for which treatment is given.
 - **Intensity** – To obtain the desired effect of treatment.
- **Balance** – (4 Pole mode only) Signal intensity of any one channel can be varied with respect to the other. Interferential field which exist at the crossing of the two signals can be localized optimally. In 2 Pole mode, it functions as Intensity knob.
- **Beat frequency** – (4 Pole mode only) The difference frequency amongst the two signals. The signal used to provide relief to deep seated tissues.
- Scan program selection (16/ 28 programs) and control.
- Frequency selection between 2K & 4K with indication.
- Sweep pattern selection (Rectangular/ Trapezoidal/ Triangular) with indication.
- Multi Vector Scan Such as 2 pole Linear, 4 Pole Linear, 4 Pole Trapezoidal, 4 Pole Non Linear
- Treatment mode selection (2 pole/ 4 pole/ 4 pole vector) with indication.
 - Continuous – The beat frequency can be selected from 0 Hz to 150 Hz which remains constant throughout the treatment period.
 - Scan – The beat frequency varies between the selected range. Three ranges include,
 - 0 Hz to 150 Hz,
 - 80 Hz to 150 Hz, and
 - 0 Hz to 10 Hz

Technical Specification

- Carrier frequency : 2 KHz and 4 KHz
- Direct Base Frequency : 0 to 150 Hz
- Intensity balance : Available
- Timer : 0 to 99 minutes
- Therapy mode : 2 pole/ 4 pole/ 4 pole vector
- Spectrum : 3 different spectrums
 - Rectangular
 - Trapezoidal
 - Linear
- Intensity control : 0 to 100 mA adjustable
- Power supply : 220V AC / 50Hz

PARAFFIN WAX BATH

- It should be portable double walled & insulated steel tank with cover
- It should have castors and automatic thermostate control
- Power control should be in three step
- Thermostate should be from 0* to 100* C
- It should have neon lamp for main power & thermostate

**Consignee List for Short wave diathermy, Nerve & muscle stimulator,
Ultrasonic therapy unit, Interferential therapy unit & Paraffin Wax Bath**

Sr. No.	Name of City/Town	Short wave diathermy	Nerve & muscle stimulator	Ultrasonic therapy unit	Interferential therapy unit	Paraffin Wax Bath
1	GANGANAGAR	1	2	2	1	2
2	JAISALMER	1	2	2	1	2
3	SIKAR	1	2	2	1	2
	Total	3	6	6	3	6