

ABSTRACT

HEALTH SERVICES DEPARTMENT

MENTAL HEALTH CENTRE
THIRUVANANTHAPURAM

Ph : 0471 - 2434762, 2433868, 2432689

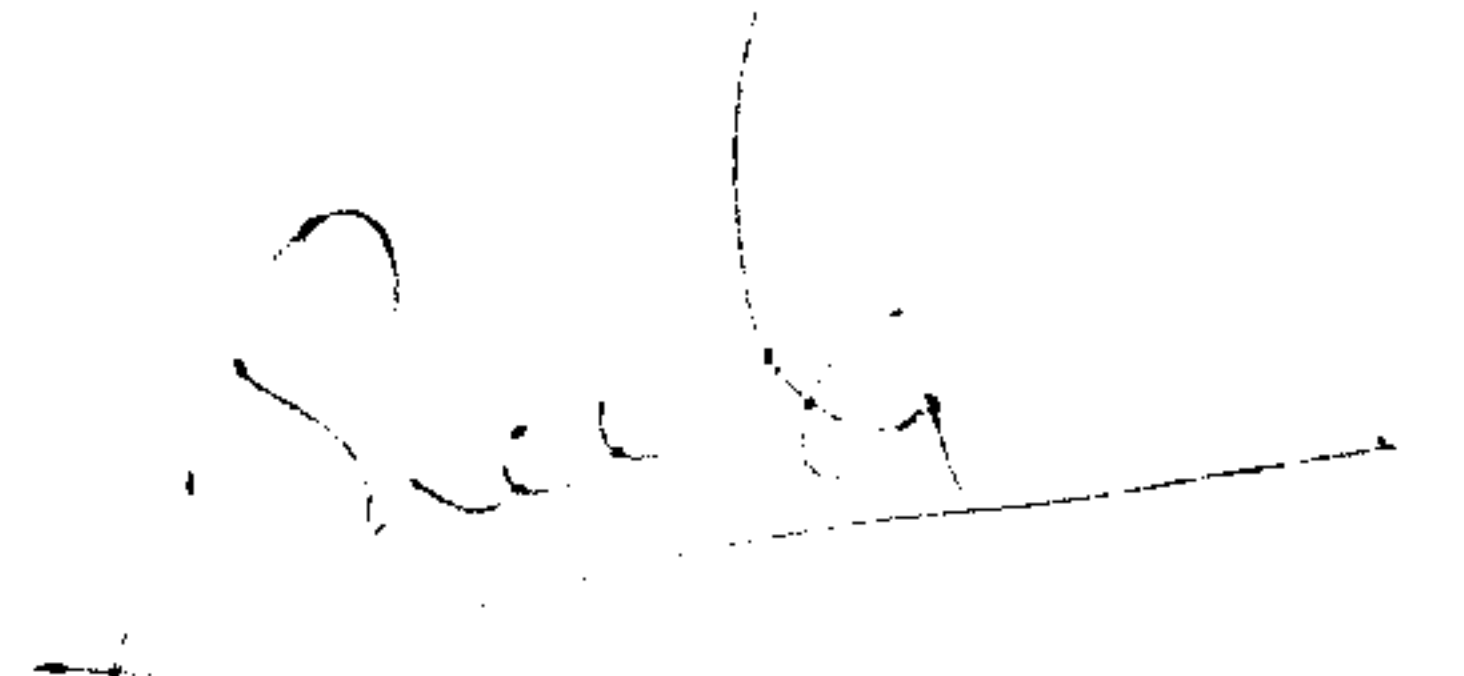
Tender No.HDS-810/2014, MHC, TVPM

Competative tenders are invited to supply EEG machine to this centre from manufactures or authorized suppliers.

<u>Cost of Tender Form</u>	<u>Original</u>	<u>Duplicate</u>
Up to Rs.50,000/-	Rs.300/- + VAT @ 5%	Rs.150/- + VAT @ 5%
Above Rs.50,000/- up to Rs.10,00,000/-	0.2% of the cost of tender rounded to the nearest multiple of 100, subject to a minimum of Rs.400 and maximum of Rs.1500/- + VAT @ 5%	50% of the cost of the original rounded to the nearest multiple of Rs.100/- + VAT @ 5%

Earnest Money Deposit	-	1%
Starting date of tender sale from	-	30-04-2014
Last date of Tender sales	-	19-05-2013, 12.00 Noon
Last date of tender received	-	20-05-2013, 02.00 P.M.
Tender opening date	-	21-05-2013, 02.00 P.M.

- Specifications and other details are available during office hours from the undersigned. Also available at www.dhs.keralagov.in


Superintendent

സംഗ്രഹം

ആരോഗ്യവകുപ്പ്
മാനസികാരോഗ്യകേന്ദ്രം, തിരുവനന്തപുരം
ഫോൺ നം: 0471-2434762, 2433868, 2432689

ദർഘാസ് നമ്പർ. ഒളി.810/2014/മാ.ആ.കേ. തിരു.

ഇ.ഇ.ജി.മെഷീൻ വാങ്ങുന്നതിന് മത്സരസ്യഭാവമുള്ള ദർഘാസുകൾ ക്ഷണിക്കുന്നു.

<u>ദർഘാസ് ഷോമിന്റെ വില</u>	<u>അസൽ</u>	<u>പകർപ്പ്</u>
50,000/ രൂപ വരെ	300/ രൂപ + വാറ്റ് @ 5%	150/ രൂപ + വാറ്റ് @ 5%
50,000/ രൂപ മുതൽ 10,00,000/ രൂപ വരെ	0.2% ആയത് അടുത്ത ഗുണിതങ്ങളായി നിജപ്പെടുത്തിയത്, എന്നാൽ ഏറ്റവും കുറഞ്ഞത് 400 രൂപയും ഏറ്റവും കൂടിയ തുക 1500 രൂപയും + വാറ്റ് @ 5%	അസൽ ദർഘാസ് ഷോമിന്റെ വിലയുടെ 50%. 100 റ്റേർ ഏറ്റവും അടുത്ത ഗുണിതങ്ങൾ + വാറ്റ് @ 5%

നിരതദ്രവ്യം

1%

ദർഘാസ് വിൽക്കുന്ന തീയതി

30/04/2013 മുതൽ

ദർഘാസ് വിൽക്കുന്ന അവസാന തീയതി,

19/05/2014 ഉച്ചയ്ക്ക് 12 മണി വരെ

ദർഘാസ് സ്വീകരിക്കുന്ന അവസാന തീയതി

20/05/2014 ഉച്ചയ്ക്ക് 2 മണി വരെ

ദർഘാസ് തുറക്കുന്ന തീയതി, സമയം

21/05/2014 ഉച്ചയ്ക്ക് 2 മണി

- മെഷീനെപ്പറ്റിയുള്ള വിശദവിവരങ്ങൾക്ക് ഓഫീസുമായി ബന്ധപ്പെടുക. കൂടുതൽ www.dhs.keralagov.in എന്ന വെബ്സൈറ്റിൽ ലഭ്യമാണ്.

സൂപ്രണ്ട്

20/1/14
185-

L.S.
9/1/14

MDS fund.
Sheela
9/1/14

24 Channel Electro Encephalograph Machine (EEG) should have the following features.

- Should be Simple and easy to operate.
- Should be Light weight and compact amplifier comfortable for adults and children.
- USB 2.0 enables Desktop or laptop based acquisition stations
- Facility to send EEG data through e-mail
- Flexible photic stimulator based on high intensity LED's
- Facility of Integrated impedance Check for electrode Connectivity
- Unlimited No. of montages
- Internal/External Calibration signal.
- All the settings should be done at single stage configuration.
- Clinician can view and record data upto 24 channels.
- Facility to reformat of gain, filter and sweep speed online/offline.
- The system should ensure patient safety through optical isolation.
- EEG software modules should fully compliant with Microsoft windows XP standards.
- In the analysis module, sensitivity and filters of the recorded data should be changed.
- Facility to Highly advanced database management with different searching options.
- Should have the Facility to record and review EEG simultaneously and can write comments during review.
- Facility to see one/all display channels by double clicking on the respective channel.
- Split screen facility for viewing channels simultaneously comprising three different montages at the same time.
- Facility to search the patient from database by ID, patient name, DOB, referring doctor and test date.
- Facility to write the data on CD/DVD.
- Variable speeds to review an EEG data.
- Facility of Calculator, notepad, calendar available on control bar in utility menu.
- Option to search events & comments.
- Facility to measure amplitude and frequency at any portion of EEG.
- Display of time and events bar at the bottom of the screen.
- Facility of Auto spike detection.
- Inbuilt EDF (European Date Format) converter.
- The equipment should have CE Certified.
- Dual power supply i.e. inbuilt battery in amplifier and USB power from PC / Laptop.
- Laplacian montage.

TECHNICAL SPECIFICATIONS

DATA ACQUISITION

- Number of Channels: 24
- Input Impedance: >100M
- Internal Noise Level: <1 μ V P-P (0.53 Hz to 120 Hz)
- CMRR:100dB
- Sampling Rate: 1024 Hz/256 Hz at ADC (256 Hz for Storage)
- ADC: 16 bit

DATA PROCESSING

- High Cut of Filters: 100 Hz
- Low Cut of Filters: .05 Hz
- Interface :USB 2.0
- Power Supply: from USB of laptop or PC and in built battery backup which help in performing EEG operations in ICU / bed side to avoid grounding artifact.
- Sensitivity: 1,2,3,5,7.5,10,15,20,30,50,75,100,150,200,300,500,750, 1000 μ V/mm
- Low-Cut Filter:1.6 (0.1), 0.53 (0.3), 0.32 (0.5), 0.16 (1.0), 0.053 (3.0), 0.032 (0.5), Hz
- High-Cut Filter: 10, 15, 35, 70 Hz
- Notch Filter: 50 or 60 Hz
- Calibration Waveform
 - a) Calibration Level: 2-1000 μ V
 - b) Calibration Rate: 1-10 Hz
- Impedance Check: Indication on screen: All electrodes are displayed on the screen in electrode position layout. Electrodes with impedance higher than the preset impedance threshold are highlighted automatically.
- Montages: Unlimited no. of display montages
- Marking Signals: Photic Stimulation, Hyperventilation,
- Sweep Speed:7.5,15,30,60 mm/Sec
- Hyperventilation: Stimulation period 1,2,3,4, or 5 minutes

PHOTIC STIMULATION

- Stimulation Mode:2 Modes(25 Steps programmable, 1 Single)
- Mode of operation: Continuous operation with pause time
- Stimulation Rate:1-60 Hz
- Stimulation Period:1 to 60 Seconds
- Light Source: High Intensity White LED's

DISPLAY

- Graphic Signal Resolution: any resolution $>$ or $=$ 1024 x 768
- No. of Display Channels: upto 24 channels
 - Referential EEG Channel 21
 - Bi-polar Channel 02
 - DC Channel 01
- Display Modes: Overwrite and page-by-page
- Waveform Display Color:Any
- Waveform Display On/Off: Yes
- Waveform Freeze: Yes
- Sweep Speed:5,10,20,40 Seconds date/page
- Event Marking: Yes

**STANDARD ACCESSORIES
SHOULD BE SUPPLIED**

- EEG disk electrodes : 50 Nos.
- EEG Paste : 2 Jar
- ECG Electrode Leads : 2 Leads
- Head Box cables : 1 No.
- USB Cable : 1 No.
- Patient Ground cable : 1 No.
- User Manual : 1 No.

COMPUTER PARTS

Processor Dual Core, RAM 3 GB, 320 HDD, DVD writer, DVD Combo drive with 1 monitor LCD/TFT Screen 20" with 17" with 1 cordless keyboard, 1 cordless Mouse with mouse pad, UPS, Printer Black and White Laser should be provided.