INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES PATNA -BIHAR

Extension of delivery date & Time against NIT No.19/2015-16/Biomedical Equipment/IGIMS/Store

The Last date for submission of completed bidding documents through registered/Speed post/Courier only is 28/3/2016 till 4;00PM and technical bid will be opened on 29/3/2016 at 3.30PM in conference hall IGIMS, Patna except Group-A,-.The technical bid of group-A viz supply , installation and commissioning of Centralised Medical Gas Pipe line system will be opened on 16.3.2016 on scheduled time..

Out come of the pre-bid meeting held on 3/3/2016 against N I T No.19/2015-16/ Biomedical Equipment/IGIMS/ Store has been uploaded on the web site www. igims. Org as under. . Interested bidders are requested to visit our site and submit their tender accordingly.

Group B – ENT,

2 channel Diagnostic Audiometer

A.	Existing specification:-	Amendment
	Point no. 3 Pure tone, pulse tone, warble tone, narrow band, white and speech noise, Diagnostic tests SISI, Decay, ABLB, MLB, Stenger, Speech test from SD- Memory card, CD or microphone.	Pure tone, pulse tone, warble tone, narrow band, white and speech noise, Diagnostic tests SISI, Decay, ABLB, Stenger, Speech test from CD or microphone. / SD Memori card
	Point no. 4, Provision of direct printout of the result.	Please Provision of direct/software printout of the result.
	Point no. 7. The Audiometer must be capable of storing at least 900/1000 patient data.	The Audiometer / database management software must be capable of storing at least 900/1000 patient data.
	Standard Accessories.	
	Headphone DD 45 or TDH 39	Headphone; TDH 39/50 or DD 45
	2GB SD – Memory card	deleted
	Pad of audiogram forms	Not accepted
(b)	**Tympanometer**	
	Point no. 3, Reflex test with tone & noise both IPSI & CONTRA	Reflex test with tone & or noise both IPSI & CONTRA
	Pint no.4; Eustachian Test facility for both Perforated and Intact Eardrum.	deleted
	Point no. 5,apart from regular probe tone of 226 Hz, (the instrument should also have the high frequency probe tones of 1 KHZ.(optional)	Probe frequency of 226 khz.
	Point no. 6, Should run on mains & battery	Should run on mains 220- 250 V, 50 Hz -Power supply- Run on mains

	Point no. 7, Should have internal memory of more than 500 patients.	Should have internal memory of 12patients which are transferrable to database management software (partially accepted)
	Tympanometry mode:-	
	Probe frequency , intensity :- 226 Hz +- 2%, 85 dB SPL	Probe frequency, intensity:- 226H+- 1% or 2%,85 dB SPL
	High frequency : 1000 HZ	Deleted
	Manual : -+200 to -600 data	Deleted
	Reflex mode:-	
	Noise stimuli –WN/HP/LP	**Deleted**
	Reflex mode:-	
	Test time 13 sec,auto tone present	**Deleted**
	Eustachian Tube Mode:-	
	Pressure range + 300 to -400 dapa	**Deleted**
C.	**DIAGNOSTIC TWO CHANEL ABR (BERA) OAE (DP, TE AND SOAE ASSR**	**SOAE WORLD DELETED**
	Should be possible to measure auditory evoked potential with two channel ABR/EP system for short latency, middle latency, long latency and cognitive EP (p-300, MMN) for pathway impairments.	Should be possible to measure auditory evoked potential with two channel ABR /EP system for short latency, middlelatency, long latency.
	Existing specification (Built no-8) Should be able to perform VEMP & Ecoch G	Not accepted
	Existing specification (Bullet no;9)	
	Should be able to present the stimulus in units of d BnHL, DBHL. Should also be able to have stimulus envelope shapes/ envelopes of rectangular, Blackmann, Hamming, Hann, Bartlett windows.	Should be able to present the stimulus in units of dBSPL, dBnHL, DBHL. Should also be able to have stimulus envelope shapes/ envelopes of rectangular, Blackmann.
	Existing specification (Bullet no;12)	
	Should be portable and should be supplied with table mounting stand.	Deleted
	Existing specification (Bullet no. 13)	
	Should create reporting in Microsoft word.	Should create reporting in Microsoft word/ PDF.
	Existing specification (Bulllet no. 14)	
	Can be upgraded for Pure tone Audiometer (PTA)	Deleted
	Existing specification (Bullet no. 15)	
	Should have the feature of auto marking	Not accepted
	Should be a Single unit only to perform Single Frequency (Phase Coherence) & Multi frequency ASSR **(Using F-test)** both.	Not deleted
	Can be upgraded for pure tone Audiometry (PTA)	Deleted
	Manual peak V Scoring Manual Threshold search	deleted

	In most of ABR system OAE is separate test protocol and should not be part of ABR system.	Not accepted
	For Electrophysiological test 12V is required but your pecification is showing unit should be run from USB port of laptop (5V) without seprate connection to mains 220V power supply	Accepted
	Non of the ABR is upgradable to pure tone Audiometry. Your specification shows it can be upgradable to PTA	Acceptable
	Should create report in Microsoft word – Difference company has got difference reporting format	Can be accepted but system must be comfortable to gradian screened
	Should have feature of Auto marking not useful in case ABR	Acceptable
. Most recent/Advance version of the each equipment shall be preferred.		

Group-C(Microbiology)
Real Time PCR

	Existing Specification	Amendment
	Fast cycler with high ramping rate should be more than 10^0C for heating and 8^0C for cooling to enable fast cycling protocols	Fast cycler with high ramping rate should be more than 5-10^0C for heating and 5-8^0C for cooling to enable fast cycling protocols
	System must allow use of sample volumes in the range of 10-100ul with Linear Dynamic Range should be of 10 orders magnitude	System must allow use of sample volumes in the range of 5-50ul with Linear Dynamic Range should be of 10 orders magnitude
	System must be supplied with a high throughput Tissue Disruption system for processing of up to 192 samples at a time. System should be imported one with minimum 25 user in India as or additional item	System must be supplied with a minimum throughput Tissue Disruption system for processing of up to 192 samples at a time. System should be imported one with minimum 25 user in India as or additional item

Group-D Pathology;

Fully Automated Hematology Analyzer, 6 Part Differential

1	The instrument should have throughput of more than 90 samples per hour in differential mode and not less than 75 samples in specialized modes	The instrument should have throughput of more than 80 samples per hour in differential mode and not less than 35 samples in specialized modes
	The instrument should be equipped with Fluorescence based semiconductor laser flow cytometry technology for enumeration of differentials and reticulocytes	The instrument should be equipped with Flow cytometry technology

Group-E(**Gastroenterology)**

Electrosurgical unit

	System should be European CE and/or US FDA approved.	**System should be European CE and US FDA approved.**

Argon Plasma Coagulations

	Should be Isolated system of Argon beamer system

OUTCOME OF PRE-BID MEETING

Group- H-CSSD:

Various points related with terms & conditions and technical specifications of the equipments and associated Civil and Electrical works mentioned in the Bidding Documents were discussed & following points were agreed.

	Points Raised by Representative of the Prospective Bidders	Recommendation of the Institute Committee
	Technical Specifications	
1.	**Water Disinfector with Dryer**	
a.	• **Chamber capacity: Operational Volume should be up to 260 – 290 Ltrs.** • **Size: 260 to 290 Ltrs.**	• **Chamber Capacity: Operational volume should be up to 250 to 300 Ltrs.**
b.	• **Standards & Norms: EN ISO 15883 & US FDA**	• **Standard & Norms: European CE / USFDA certified and process should be validated in accotdance with EN ISO 15883.**
c.	• **Should be equipped with process tank, booster tank and drain tank.**	• **System should be able for cleaning, disinfection and drying.**
d.	• **Washer should be provided with circulation pump with min 3 HP capacity motor with minimum 20 – 22 psi at pump outlet to achieve effective cleaning.**	• **Washer should be provided with circulation pump with approx. 3 HP capacity motor with minimum 20 – 22 psi at pump outlet (or total circulation capacity of approx. 1000 liter/min) for effective cleaning.**
e.	• Washer should have a built in self cleaning debris filter. Upon completion of the wash phase, the flow through the filter should be reversed and debris should be back-flushed into the effluent drain.	• Washer should have a built in self cleaning debris filter. Upon completion of the wash phase, the flow through the filter should be reversed and debris should be back-flushed into the effluent drain **OR Washer should be equipped with triple filtration system.**
2.	**Ultrasonic Cleaner (20 Ltrs.)**	
a.	• The units should be a compact free-standing bench model, with a built-in tank manufactured from high-quality stainless steel and a solid-state generator that sends ultrasonic (approx 42,000 cycles per second) impulses through wash water containing detergent and electrical heating; microprocessor controlled display with memory time and temperature functions.	• The units should be a compact free-standing bench model, with a built-in tank manufactured from high-quality stainless steel and a solid-state generator that sends ultrasonic (**approx 37000 - 42,000 cycles per second**) impulses through wash water containing detergent and electrical heating; microprocessor controlled display with memory time and temperature functions.
b.	• It should have digital read out timer and temperature setting (up to +69° C (temperature adjustable from 20 to 69 °C) monitoring.	• It should have digital read out timer and temperature setting (up to +69° C (adjustable) monitoring.
3.	**Horizontal Steam Sterilizer with Accessories**	
a.	• Size: 250 to 300 Ltrs Processing capacity should	• Size: 250 to 300 Ltrs.

	be minimum 2 STU irrespective of volume.	
b.	• Should be having Single Door (constructed of 316L or 313Ti St. Steel)	• **Double Door** (constructed of 316L or 313Ti St. Steel) with **emergent Flash Cycle.**
c.	• Firms must provide suitable local compressor/water softener/ R.O water system with each unit, as required	• Firm must provide suitable local Compressor System with each unit, as per requirement.
d.	• Standard: Conforming to USFDA and ASME Pressure Vessel	• Standard: Conforming to USFDA or European CE certified.
4.	**Horizontal Steam Sterilizer (900 – 1000 Ltrs.) with Accessories**	
a.	• Size: 900 to 1000 Ltrs and should have minimum processing capacity of 15 STU per cycle irrespective of volume in Ltr.	• **Size: 900 to 1000 Ltrs** .
b.	• Sterilizer should be equipped with 132 degree C pre-vacuum; 135degreeC, Liquid cycle with 121deg C with 45 mins exposure time and Gravity Cycle at 135deg C. All these cycles should be pre feed into the control system and should be validated as per AAMI ST8 or EN285 / US FDA standards.	• Sterilizer should be equipped with 132 degree C pre-vacuum; 135degreeC, Liquid cycle with 121deg C with 45 mins exposure time and Gravity Cycle at 135deg C. All these cycles should be pre feed into the control system and should be validated as per AAMI ST8 or EN285 / US FDA standards.
c.	• Sterilizer should be supplied along with steam generator with minimum 70Kw capacity for faster cycle.	• Sterilizer should be supplied **along with or inbuilt steam generator with approx. 60 to 70Kw capacity** for faster cycle.
d.	• Sterilizer supplied should have dual RDT sensors for temperature in the Chamber and one RTD sensor for pressure near drain point.	• Sterilizer supplied should have dual RDT / PT sensors for temperature in the Chamber and for pressure near drain point.
e.	• Water consumption should be low & features like electronic water saving controls or ECO water saving should be provided.	• Water consumption should be low & features like electronic water saving controls or ECO water saving should be provided. Bidder should specify the water consumption along with the documentary proof.
	• Standard: Conforming to EN285, USFDA and ASME Pressure Vessel	• Standard: Conforming to **USFDA or European CE and Pressure Vessel should be certified as per ASME / PED guidelines.**
5.	**Supply of Supporting Instruments / Accessories**	
	• Quality Standard	• All the supporting instruments and accessories should be **from ISO certified manufacturers**.

Details of CIVIL WOKS

a

i. Providing and fixing Ceramic glazed wall tiles (Somany / Kajaria / NTC – Make or equivalent standard make) 300 x 200 mm size on the base of 12mm thick cement mortar (1:3) after demolishing old plaster all complete with all taxes as per specification and direction of user: **Rate:____ / Sq. Meter**.

ii. Providing and fixing vitrified tiles of size 2' x 2' for flooring of entire area, all complete with all taxes as per specification and direction of user**. Rate: _____/ Sq. Meter.**

iii. Provision of RO water supply and storage facility (Water Tank of at least 1000 Liters; Qty. – 02 Nos. of standard make), plumbing work and other associated civil work.

iv. Fabrication of bricks partion wall (as per drawing) with plaster with provision of drainage system.

	v.	To provide false ceiling (aluminum) with LED Lights of complete area.
	vi.	Renovation of existing Window by closing the same by a glass supported by aluminum frame.
	vii.	Anti bacterial paint of the sterilize zone area.
	viii.	Fire Fighting: Bidder should provide fire detection alarm and effective free fighting system. Bidder should provide adequate no. of Dry CO2 Cylinder – 2 Kg. with essential accessories. Cylinder should be certified by respective regulatory board.
	Details of ELECTRICAL WOKS	
a.	i.	Installation of Electrical Panel of 400A with provisions of Main Switches at various places required for operation of equipments. Four nos. of outlets with Main Switch of 63A (ISI; Havel's / L & T etc.) are to be provided for used with equipments. Apart from above, suitable quantity (at least 5 nos.) 5A / 15A power sockets are to be provided inside the space. General lightning (Tube / CFL & Fan) and ventilation (Suitable Exhaust Fan) are to be also provided.
	ii.	Supply, installation and commissioning of 5 nos. of 2.0 Tr. Split Air-Conditioning System in sterilization and non-sterilization area with stabilizer of suitable capacity. Split Air-Conditioning System to be quoted should be energy efficient and 5 star rating.
	iii.	Proper earthling should be provided for the equipment.

- **The site designated for the said work and adjoining areas were shown to the representative of prospective bidders. A layout plan with actual dimensions of the site was made available to them.**
- **The other terms & conditions as mentioned in the Tender Notice will remain the same.**

Group-F (Obs. & Gyne.)

	Existing Specification	Amendment
	Should have inbuilt LCD Screen/LCD TV monitor with facilities to display on screen fetal heart tracings and toco tracings	**Display size should be mentioned ; 8-10"**
	External Toco range 0-127 relative units	**External Toco range should be 0-100 relative unit**
	Should have NST timer for antepartum applications	**Deleted.**
	Highly sensitive ultrasound transducer which should be 1.5 MHz for less signa attenuation and good signal acquisition	**Highly sensitive ultrasound transducer should be 1 MHz+-1% for less signa attenuation and good signal acquisition**
	Should be FDA,CE,UL or BIS approved product	**It should be US FDA & European CE approved**

Group- I- Cardiology

TMT Machine

07	Standards, safety and Training 7.1 Should be FDA and CE Approved Product.	No need for amendment

Holter System

	Should be FDA or CE Approved Product.	System should be USFDA and CE approved

2-D Color Doppler Echo Machine (Qty.3 no.)

1	1.5-5 MHz electronic phased array for adult cardiac study.	2-4 MHz electronics phased arry for adult cardiac study.
	Should have high frame rates of more than 500 FPS	Should have high frame rates of more than 900 FPS
	At least 60 GB onboard HDD for storage.	At least 500 GB onboard HDD for storage
	Should be quoted with B/W thermal printer with100 rolls with facility for color print	Should be quoted with B/W thermal printer with100 rolls
	It should be CE and FDA approved	It should be USFDA & European CE approved
Special note;- For Better patient care services,Multi plane Adult TEE probe 3-7 MHz. System should have minimum 125000 or more Digital processing channels		

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