

TENDER DOCUMENT
EQUIPMENTS FOR FGRMN
UNDER EFC-OTSG

2014-15

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TENDER NOTICE

No. IFGTB/2014-15/Proc.cell /1 dated:12 .12.2014

The Director, IFGTB, Coimbatore invites sealed tenders from manufacturers /authorized distributors / suppliers for supply of the following instruments/equipments.

Item Name of the Equipment

1. **Deep Freezer (-80°C) (2 nos)**
2. **Needle chamber for portable photosynthesis system**
3. **Double beam UV-Visible spectrophotometer**
4. **Electronic Balance (2 sets)**
5. **Accelerated Ageing chamber (Controlled humidity and temperature chamber)**
6. **BOD incubator (2 nos)**
7. **Deep freezer (-20°C) (3 nos)**
8. **Seed Drier**
9. **UPS 10 KVA**
10. **Refrigerated centrifuge (2 Nos)**

Tender documents can be had from the office of the Director, IFGTB, Coimbatore during office hours on all working days **from 14.12.2014 to 29.12.2014** either in person or by post, upon payment of Rs 562/- Tender fee Rs.500 + Rs.62 Service tax) in the form of DD drawn in favour of Director, IFGTB payable at Coimbatore. Director, IFGTB shall not be responsible for postal delay, if any, for the delivery of documents or non receipt of the same. Last date for receipt of tenders is up to 3.00 p.m. **on 29.12.2014. Tender will be opened on the same day at 3.30pm.**

The tender documents can also be downloaded from the Institute's website:
<http://ifgtb.icfre.gov.in> Ph.: 0091 422 2484100,2484131 Fax: 0091 422 2430549

DIRECTOR IFGTB

INSTITUTE OF FOREST GENETICS AND TREE BREEDING (IFGTB),
*(Indian Council of Forestry Research and Education, Dehradun,
An autonomous body of the Ministry of Environment and Forests,
Government of India)*COIMBATORE - 641 002, Tamil Nadu
Ph.: 0422 2484100, Fax: 0422 2430549 Website: <http://ifgtb.icfre.gov.in>

Terms & Conditions of tender

Subject. : Tender called for Equipments under FGRM (EFC-OTSG)
Tender Ref. No. : No. 6-15/14-15/IFGTB/FGRMN EQUIPMENTS
Last date for submission : on 29.12.2014 at 3.00 p.m.
Date of opening : on 29.12.2014 at 3.30 p.m.

Tenders not submitted in the prescribed format of this Institute will be rejected.

TECHNICAL BID FOR THE ITEMS MENTIONED IN THE INSTITUTE'S TENDER

No. IFGTB/2014-15/Proc.cell /1 dated:12.12.2014

Technical specifications are to be provided in the following format duly signed by the authorized signatory failing which the tender will not be accepted.

1. **Item No. and Name of the Instrument/Equipment: Deep Freezer (-80°C) - 2 Nos**

Specifications of the instrument / equipment

S. No.	Specifications required	Specifications offered *
1.	<p>Deep Freezer (-80°C)</p> <p style="text-align: center;"><u>SPECIFICATIONS</u></p> <ul style="list-style-type: none"> ➤ Effective Capacity : 700 to 750 ltrs ➤ Temperature range : -50°C to -86°C (1°C increment) ➤ Maximum cooling performance : -86°C (Ambient temperature 30°C) ➤ Should have TWIN GUARD Series with two independent compressor (Dual cooling) to provide a reliable -86°C ultra-low temperature environment and if unexpected breakdown of one compressor the other should take load and maintain temperature of -65°C till the other compressor is replaced ➤ Should have a thin Vacuum insulation panel which decreases the cabinet wall thickness by half and achieves up to 30% more storage capacity than conventionally insulated freezers ➤ Should have a power saving mode which decreases the power consumption by 15 to 20% and in turn decreases the stress on compressor ➤ Various alarms including high/low temperatures, door ajar, power failure alarm and part replacement notification help to keep samples safe even in an emergency. ➤ A vacuum release port allows smooth door opening even when the door seal is tightened by negative pressure generated by the temperature differences 	

	<p>between chamber and ambient environment.</p> <ul style="list-style-type: none"> ➤ Should be a Filter less construction to eliminate the bothersome filter cleaning and maintenance ➤ Rugged, one-handed outer door latch allows a padlock to be attached. ➤ Should have a clear large LCD Display with Data log function retains operation data for a preset period ➤ Alarm : High temperature, Door ajar, Power failure, Remote alarm contact, Part replacement notification, Fan lock alarm, Refrigeration circuit abnormal alarm ➤ Two hermetic compressor 1100W ➤ Should have a highly efficient Pull-up and pull-down characteristics for proper and efficient maintenance of samples ➤ Should be a imported instrument with all below certifications <ul style="list-style-type: none"> • Class IIa Medical device for storage of DNA,storage cells, Plasma and stemcells • Quality management system:ISO9001 • Medical Device Management System:ISO13485 • Enviromental Management System:ISO14001 <p>Two inner insulated door for proper maintenance of samples when the outer door is opened and inner doors can be easily removable for cleaning and defrosting</p>	
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**2. Item No.2 and Name of the Instrument/Equipment:
Needle chamber for portable photosynthesis system**

Specifications of the instrument / equipment

S. No.	Specifications required	Specifications offered *
2.	<p>Name of the equipment : Needle chamber for portable photosynthesis system</p> <p>Aperture size : 2x 6 cm (Specially designed foam mounting pads)</p> <p>Number of Leaves : Upto five needles in the chamber</p> <p>Leaf Temperature : Through energy balance</p> <p>6400-07 has a 2 x 6 cm aperture and specially designed</p>	

	The chamber top Penetration : Clear Propafilm® window for excellent light penetration The chamber bottom : Clear, allowing light to penetrate Compatible to Licor Li 6400 XT model of Portable Photosynthesis system.	
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Item No. 3 and Name of the Instrument/Equipment: Double beam UV- Visible Spectrophotometer

S. No.	Specifications required	Specifications offered *
3	Name of the equipment : Double Beam Spectrophotometer	

Specification of double beam spectrophotometer

Double beam spectrophotometer for high short and long term stability of measurement results with Cooled Double Detection (CDD) Technology. Real Double Beam system for the UV to NIR - scanning mode and multi wavelength measurement possible in complete spectral range - high scanning speed, quartz coated optics for high long term stability, passing all Pharmacopeia demands (optical resolution, wavelength accuracy, photometric accuracy and reproducibility and more), large sample compartment, complete accessories program, quick change of accessories, automatic accessory recognition, measurement of extremely diluted samples using cells up to 100mm

SPECIFICATION

Bandwidth	Variable 0.1/ 1/ 2/ 4 nm
Light Source	Combination of Halogen and Deuterium lamp. Lamp change selectable between 300 and 450 nm.
Optics	Double Beam
Sample Compartment	Dimensions (W x H x D): 364 x 185 x 260 mm
Scanning Speed	12000 nm/min
Stray Light	198 nm (KCl Merck 1.08164.0001): 0.03% T. 220 nm (NaI): 0.03% T. 240 nm (NaI): 0.03% T. 340 nm (NaNO ₂): 0.01% T.
Wavelength Range	190 to 1100 nm
Additional	Scan Application: Mode for slow scanning. Scan speed and integration

specifications	time selectable. Mode: Energy, Absorption, Transmission, Reflectance Photometric Display: -8 to 8 A Photometric Range: -3 to 3 A (up to 900 nm) UV-Resolution (toluene, hexane): 2.3* Wavelength Accuracy (Deuterium line at 656 nm): ± 0.1 nm Wavelength Reproducibility (with Holmium oxide filter*): ± 0.02 Photometric Accuracy: VIS at 546 nm with Neutral glass filter Hellma F4** ± 0.003 . UV with Potassium dichromate according Ph. Eur. ± 0.01 A Baseline Stability at 500 nm: 0.0001 (RMS) Longterm Stability at 500 nm: ± 0.0005
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Standard Software for spectrometer control, result storage;

- Result presentation.
- Varied presentation options, individual selection of color schemes on the monitor, shifting, copying, overlay of spectra;
- problem-free data exchange with other Windows-based applications;
- use of databases for method and data management;
- "audit trail" function for unbroken data records;
- comprehensive print functions;
- concentration determinations with factor or calibration curve (linear, quadratic);
- diverse calibration models, e.g. data obtainable from single measured values, automatic peak search, derivation with and without correction of the basic value, statistical functions; context-sensitive online help function
- service check
- **Dedicated Computer - Desktop PC, Tower or Laptop with 5 kVA UPS**

Item No. 4 and Name of the Instrument/Equipment: Electronic Balance – 2 sets

S. No.	Specifications required	Specifications offered *
4	Name of the equipment : Electronic Balance	

SPECIFICATION:

Capacity:	120 g
Ability	0.0001 g
Percentage Min. Division	0.01%, 0.1% or 1% (auto prompt)
Counting Min. Weight	0.1 mg
Linearity	± 0.0002 g
Stabil. Time (typically)	3 seconds

Repeatability/Std. Dev.		0.0001g
<u>Sensitivity Drift</u>		± 2ppm / °C (10°C~30°C / 50°F~ 86°F)
Display Refresh		5 times per second (stable) 10 times per second (unstable)
Pan Size		Ø 85mm / 3.3 in
Physical Dimensions	(mm)	213 (W) X 319 (D) X 301 (H)
	(inches)	8.4 (W) X 12.6 (D) X 11.9 (H)
Breeze Break Dimensions	(mm)	180 (W) X 192 (D) X 200 (H)
	(inches)	7.1 (W) X 7.5 (D) X 7.9 (H)
Operating Temp.		5°C~40°C / 41°F~104°F RH less than 85%
Weight (Approx.)		5.7 kg. / 12.5 lb.
Power		120 VAC (AC Adapter) 50Hz/60Hz
Standard Accessories		Manual, AC Adapter, Protective Display Cover
<u>Cal. Mass (Optional)</u>		100g
With rechargeable Battery	Net Weight	1.1 kg / 0.45 lbs
	Operating Temperature	5° C to 40 ° C (41° F to 104° F)
	Storage Temperature	-20° C to 40 ° C
	Charging Time	Approx. 15 hours for 100% charge from nominal 0 charge
	Battery Type	Ni-MH
	Dimensions	57 (H) x 96 (W) x 124 (D) mm
	Power (Input)	120V AC Adapter
	Operating Hours	7

Item No. 5 and Name of the Instrument/Equipment: Accelerated Ageing chamber

S. No.	Specifications required	Specifications offered *
5	Name of the equipment : Accelerated Ageing chamber	

SPECIFICATIONS FOR ACCELERATED AGEING CHAMBER

The Display Panel Have for below listed machines features a

ADVANCE PID control for temperature /humidity with timer and

soft power on key. It has 128 x 64

Graphical LCD display with user friendly messages in form of images and values.

5-soft touch keys for operation of the machine & leds for indication of different parameters.

The **Graphics Menu Driven** system allows the user to set multiple parameters easily.

Temperature sensing with $\pm 1^{\circ}\text{C}$ Auto tune PID resolution

Ranges: Temperature +15-150 °C

Humidity 40-95%

Timer 99:99 mins

SSR based : heater, compressor ,humidifier , dehumidifier control outputs.

Alarm On-off on separate key: Water low indication and level detection

1000 data internal storage. Also transfer the stored data by Micro SD Card

RTC based timer controls for accurate calculations.

Alarm : output is given

When the process starts and system stops

When the present value of any parameter

Exceeds its set value if/Water

Inner Chamber size: W500 x D450 x H 850mm

Over all heater Power 5.5 k

Supply voltage: 230 V AC 50 Hz

Chamber Size: 6 CU FEET

With 4 SS Trays 5mm hole Punched

Item No. 6 and Name of the Instrument/Equipment: BOD Incubator

S. No.	Specifications required	Specifications offered *
6	Name of the equipment : BOD Incubator	

SPECIFICATIONS FOR BOD INCUBATOR

- Stainless steel inner chamber
- Four square semicircle transition, convenient to clean
- Micro-computer control system; LCD display with functions of time setting, parameter memorizing and power reset recovering
- CFC-free refrigeration and gentle breeze circulation
- Double door seal, tempered glass, silicon rubber seal, Inner & Outer door with magnetic rubber seal.
- Inner chamber with light for convenient observation

Temperature Range	0 - 65°C
Temperature Resolution	0.1°C
Temperature Uniformity	± 0.5°C
Working temperature	5°C to 30°C
Timer	1-9999 min
Power Wattage	500 W
Load per rack	2 / 15kg
Power Supply	220 V / 50 Hz

Item No.7 and Name of the Instrument/Equipment:

DEEP FREEZER (-20°C) – 3 nos

S. No.	Specifications required	Specifications offered *
7	Name of the equipment : DEEP FREEZER (-20°C)	

SPECIFICATIONS FOR DEEP FREEZER (-20°C)

- Two independent freezer cabinets in one body, with separate defrost and operation
- Memory backup
- Temperature display
- Control panel, which can be reset to zero for validation
- Two access ports on the back side
- Four casters and two adjustable feet

External dimensions (W x D x H)	804 x 772 x 1802 mm
Internal dimensions (W x D x H)	Upper: 658 x 607 x 589 mm Lower: 658 x 607 x 603 mm
Volume	452 litres
Net weight (approx)	136 kg
Cooling performance	-30 C
- at ambient temperature	35 C
Temperature setting range	-18 ~ -40 C
Temperature control range	-20 ~ -30 C
Controller	Electronic
Display	LED
Temperature sensor	Thermistor
Cooling method	Direct
Compressor	350 W
Refrigerant	HFC
Insulation material	PUF
Insulation thickness	70 mm
Power failure	V-B-R
High temperature	V-B-R
Low temperature	V-B-R
Exterior material	Painted steel
Interior material	Styrol resin
Outer door/lid	2
Inner door/lid	-
Outer door/lid lock	Yes
Shelves	Fixed
Containers / baskets	0/6/8
Max. load - per shelf/basket/drawer	U:30/L:20
Max. load –total	100
Access port	2
Position	back
Diameter	30
Casters	4 (2 leveling feet)
Power supply	230V 50Hz Single phase
Noise level	42 dB

Item No. 8 and Name of the Instrument/Equipment: SEED DRIER

SPECIFICATION OF SEED DRIER

S. No.	Specifications required	Specifications offered *
8	Name of the equipment : Seed Drier <ul style="list-style-type: none"> • Cabinet size 4'X3'X'3 • Double walled, inner made of anodized aluminium, outer made of mild steel enamel painted • Properly insulated, provided with metallic insulated door with best quality hinges, handle synthetic gasket, etc • Inner chamber provided with perforated shelves • Chamber provided with heating elements made of kanthal wire with temperature indicator with fan. • Temperature from ambient to 120°C. • Controlled by digital temperature controller-cum indicator. 	

Item No. 9 and Name of the Instrument/Equipment: UPS 10 KVA

S. No.	Specifications required	Specifications offered *
9	Name of the equipment : UPS 10 KVA	

UPS 10 KVA-specifications

Rating	10 KVA
AC INPUT	415V + 15% -20% Three Phase Input
Frequency	50Hz ± 6%
DC VOLTAGE:	180 / 360VDC
Charging Time	12 Hours for 90% of full Capacity
Charger Type	CVCC Internal Controlled Rectifier type
Output Voltage	400V AC Three Phase
Voltage Regulation	± 2% for DC I/p variation & o/p load variation
Frequency	50Hz ± 0.5Hz
Inverter Efficiency	> 92%
Power Factor	0.8
Overload	150% for 60 sec
Crest Factor	3:1
Phase Displacement	120 ⁰ ± 1 ⁰

Audible Noise	Less than 45 dB at 1 Meter
METERING:	
Microprocessor based Digital LCD Meter for	R, Y, B Output Voltages, Output currents & Frequency, DC Voltage, Battery and Load Percentage
GENERAL:	
Dimensions (LxWxH)mm	1040 x 350 x 910
Operating temperature	0 ⁰ C to 50 ⁰ C
Humidity	Max 95%, Noncondensing
PROTECTIONS :	
Output Overload & Short circuit, Output Under & Overvoltage, DC Under & Overvoltage Input Under & Overvoltage, Single Phasing & Phase unbalance	
INDICATIONS & ALARMS:	
a) Mains on	Indication
b) Inverter on	Indication
c) DC Low	Indication & Alarm
d) Fault	Indication & Alarm
e) Output Overload	Indication & Alarm

Item No.10 and Name of the Instrument/Equipment: Refrigerated Centrifuge

S. No.	Specifications required	Specifications offered *
10	Name of the equipment : Refrigerated Centrifuge	

SPECIFICATIONS FOR REFRIGERATED CENTRIFUGE

The Centrifuge should be able to accommodate different rotors, which can accommodate tubes such as 1.5/2.0ml tubes, 15ml and 50ml falcon tubes or MTP plates

Product Features:

- Automatic rotor recognition
- Stores up to 50 routine programs
- Backlit graphical liquid crystal display
- Lid automatically pops open at the end of the run
- Low access height: 25cm
- Menu guided operation in 4 different languages
- Choice of 8 different rotors (optional)

Technical specifications:

- Maximum RCF: 30,130 x g
- Maximum RPM : 17,500 1/min

Acceleration time to max.rpm : <14 s
 Braking time to maximum rpm : <15 s
 Soft ramp : adjustable
 Timer : 30 s - continuous
 Noise level - <67 dB
 Temperature range -11°C - + 40°C
 Dimension (WxDxH) : 38 x 64 x 29 cm
 Weight without rotor - 56 kg
 Power requirement : 475 W

Rotors

1. Micro test tube rotor for 30 x 1.5/2.0 ml micro test tubes, Max. Rotational Speed: 14,000 1/min, Max. RCF 20,817 x g
2. Rotor for 6 x 50 ml or 6 x 15 ml tubes, Max. Rotational Speed: 7830 1/min, Max. RCF 7197 x g

2. Specification of accessories:

S. No.	Specifications required	Specifications offered *

3. Manufacturer's Name:

4. Full Address:

5. Phone/ Fax/ Mail Details:

- a. Phone:
- b. Fax:
- c. E-mail:

d. Website:

6. List of addresses to whom the equipment is supplied in India during the past 24 months

S. No.	Model / Make of the Equipment / Instrument	Address of the Institute / Organisation	Phone / Fax / E-mail	Date of Supply

7. List of Authorised Service Agents for the Instrument / Equipment in India / Asia

S. No.	Name of the Authorised Service Engineer	Address of the Authorised Service Dealers	Phone / Fax / E-mail

8. Terms of Guarantee/Warranty:

Printed literature / brochures in support of the specifications of the offer claimed must be supplied. Otherwise, the tenderer has to give an undertaking that those technical specifications are available in the model quoted by them. In case of false undertaking, the tenderer will be black listed and the EMD/Security Deposit will be forfeited.

Station:

Date:

Signature.....

Name.....

Designation.....

(Authorised Signatory with Seal)

FINANCIAL BID FOR THE TENDER NOTICE No. 6-15/14-15/ IFGTB/ FGRMN dtd:12.12.2014 FGRMN EQUIPMENTS OF INSTITUTE OF FOREST GENETICS AND TREE BREEDING (IFGTB), COIMBATORE

Item No. & Name of Instrument/ Equipment:

Make and Model:

Manufacturer Name & Address:

Tel. No(s):

Fax No(s):

Email:

Website:

Dealer Name & Address:

Tel. No(s):

Fax No(s):

Email:

Website:

Marketed by (if other than Dealer/Manufacturer):

Tel. No(s):

Fax No(s):

Email:

Website:

Signature with Seal of the Tenderer

Name of the instrument /equipment	Price of the instrument Ex-factory Ex-warehouse Ex-showroom Off the shelf (A)	Customs and Excise duty (B)	Net Ex-works/Ex-warehouse/Ex-showroom /Off the shelf (A+B)	Packaging, handling and forwarding (C)	Freight and Insurance charges (D)	Incidental charges, if any (E)	VAT % if applicable (F)	Total price for delivery at final destination (A+B+C+D+E) E+F)

Optional Accessories (in order of priority) for each instrument, if any

Sl. No.	Cat. No/Code/ Part No.	Name of the Item (in brief)	Qty.	Price (each) in Rs.	Total Price in Rs.
1.					
2.					
3.					
4.					

1. Valid price proof (authenticated price list of the main company) against each item including the above main item(s) should be enclosed along with the financial bid if you are a dealer / sub-dealer of the main company. If the above Instrument/ Equipment is a proprietary one, then an undertaking may be furnished that the same item was never supplied at a lower price than what quoted to any other organization (i.e. any higher discount than the above offered never given to any organization).
2. Handling freight and insurance charges will be negotiated for the Optional Accessories to be purchased if required.
3. ICFRE, the parent body of the IFGTB, Coimbatore is registered with the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, New Delhi for the purpose of availing customs duty exemption in terms of Government Notification No. 51/96- Customs dated 23-7-1996 and central excise duty exemption in terms of Government Notification No 10/97-Central Excise dated 1st March, 1997. Therefore the parties may offer their rates without including Customs and Central excise duty.
4. The institute is entitled for concessional General Sales Tax on production of form D. Parties may offer their rates accordingly.
5. No price benefit will be given for those items supplied free of cost. However, preference may be given at the time of selection if the price bid of two firms are equal.
6. Insurance should be calculated for delivery up to IFGTB Coimbatore.
7. Price should be quoted in figures and words

Station:

Signature.....

Date:

NAME.....

Designation.....

(Authorised Signatory with Seal)

TERMS & CONDITIONS OF TENDER NOTICE OF No. 6-15/14-15/IFGTB/FGRMN dated:12.12.2014 FGRMN EQUIPMENTS INSTITUTE OF FOREST GENETICS AND TREE BREEDING, COIMBATORE

Last date for submission : 29.12.2014 up to 3.00 P.M.

1. Tender should be addressed to the Director, Institute of Forest Genetics and Tree Breeding, Forest Campus, R. S. Puram, Coimbatore in a sealed envelope marked as tender for purchase of instruments/equipment **No.6-15/IFGTB/2014-15/FGRMN** containing three separate envelopes marked as **1. EMD, 2. Technical bid and 3. Financial bid separately.**
2. **Envelope 1 shall contain EMD and the DD towards the cost of the tender form downloaded from web site**, Envelope 2 shall contain Technical bids and Envelope 3 shall contain Financial bids.
3. **The tender containing all three envelopes should reach on or before 3.00 P.M. on 29.12.2014. The tenders in Envelope No. 1 will be opened at 3.30 P.M. on 29-12-2014 in the presence of the tenderers or their authorized agents, if any, present.** Envelope No. 2 containing Technical bids will be opened only in respect of those tenders which fulfill the requirements of EMD. Envelope No. 3 containing the financial bids will be opened only after examination of the Technical bids on date, which shall be notified to the tenderers found qualified technically.
4. Tender forms should be clearly filled in ink legibly or typewritten giving full address of the tenderer. The tenderer should quote the rate for each instrument/equipment in figures as well as in words. Alterations/overwriting/cuttings, unless legibly attested by the tenderer, shall disqualify the tenders. The tenders should be signed by the tenderer himself/themselves or by their authorized signatory of the firm/proprietor.
5. The Institute may, at its discretion, extend this deadline for submission of bids.

6. The number and quantity mentioned in the above Tender Notice is the probable number and the same may be increased/decreased according to the requirement. The Director, IFGTB reserves the right to order or not to order any number and quantity of any instrument / equipment.

7. EARNEST MONEY DEPOSIT (EMD):

a. An Earnest Money Deposit (EMD) of rupees as per the table below in the form of crossed Demand Draft drawn in favour of Director, IFGTB, payable at Coimbatore must be deposited along with the tender. The EMD to the unsuccessful tenderer(s) will be returned at the earliest after expiry of the final bid validity or latest on or before the 30th day of the award of the purchase order whichever is earlier. The EMD may be forfeited:

i. if a tenderer withdraws his bid during the period of bid validity specified or

ii. in case of a successful Bidder, if the Bidder fails to furnish security deposit

S.No	Total value of the tender (Rs)	EMD amount(Rs)
1.	Less than Rs. 5,00,000	5,000.00
2.	Between 5,00,001 to 20,00,000	12,500.00
3.	Between 20,00,001 to 40,00,000	30,000.00
4.	Between 40,00,001 to 60,00,000	50,000.00
5.	More than 60,00,001	70,000.00

iii. **The EMD of the unsuccessful bidder will be released after finalization .**

iv. **For the successful bidder EMD will be released after they submit the performance security as per our instructions, otherwise**

8. **Technical bid:** Tenderer shall furnish complete technical specification in the format prescribed duly signed failing which tender will not be accepted.

9. The following documents in original (Self-attested with rubber seal, in case of photocopies) should be enclosed along with the technical bid. In case of photocopies, original documents for the following should be produced whenever required; failing which tender submitted will be rejected at any moment.

- a. Brochures supporting the specifications quoted.
 - b. Authorization certificate of the concerned company in favour of the tenderer or the Principal dealer if the tenderer is a sub agent to sell/service/give annual maintenance service for the items quoted.
 - c. Document supporting both past and present status of supply of the instruments by both the Manufacturer and Supplier.
 - d. Valid proof of any orders received from various Govt. /Semi-Govt./P.S.U. etc. for supply and installation of the same make and model of scientific equipment / instruments .
10. Guarantee for each instrument/equipment should have at least one year from the date of successful installation. Preference in selection, other than cost of the equipment, will be given for those firms quoted more years of guarantee.
 11. The consignment has to be delivered at this Institute and properly installed.
 12. Space, electrical load etc. needed for the instrument/equipment/article may also be indicated along with the Technical bid.
 13. If the instrument/equipment is a proprietary one (i.e., similar type of instrument/equipment in same name for similar work is not manufactured by any other company or such instrument/equipment with same specification is not available in the market as an assembled unit/assembled by parts procured from different manufacturers/suppliers or the instrument/ equipment with even slight deviation from the specification required by IFGTB is also not available with any other manufacturer/company and such an instrument/equipment is solely manufactured by the tenderer or his Principal.), then supporting documents with an undertaking to that effect is to be provided along with the Technical bid.
 14. Service facility beyond guarantee period i.e., after sales service condition/Annual Maintenance Contract may be indicated clearly including the cost of such service and name of the firm / service provider, their financial position and past performance. Whether any training is needed or is it included in package deal is to be indicated. Any difference or variations from the specification required by the Institute should be clearly mentioned.

15. Brochure containing the detailed specification of the models quoted and all parts and accessories is to be supplied.
16. **Financial bid:** The tenderer(s) should type the bid form in the format supplied to them or to fill up by hand legibly. Any financial bid not given in the prescribed format will be rejected.
 - a. Financial bid must contain rates in figures and also in words. Any overwriting/using fluids/cutting in the Price bid will not be entertained unless they are attested by the signatory. The tenderer should take care that the rates and amounts are written in such a way that interpolation is not possible and no blanks should be left which would otherwise make the tender liable for rejection.
 - i. The basic price of each item in Indian Rupees should be quoted, both in figure and words separately. The rate should be valid for a minimum of 120 days from the date of opening of the tender.
 - ii. Price list of the company, if any should be enclosed along with the bid.
17. ICFRE, the parent body of the IFGTB, Coimbatore is registered with the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, New Delhi for the purpose of availing customs duty exemption in terms of Government Notification No. 51/96- Customs dated 23-7-1996 and central excise duty exemption in terms of Government Notification No 10/97-Central Excise dated 1st March, 1997. Therefore the parties may offer their rates without including Customs and Central excise duty.
18. The Institute is entitled for concessional General Sales Tax on production of form D. Parties may offer their rates accordingly.
19. Bids shall remain valid for 120 days after the date of bid opening. Any tenderer whose validity of the financial bid is for a lesser duration shall be rejected by the Institute as non responsive.
20. The successful tenderer shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the instruments/equipments at the Institute.

21. Address of the authorized service agent of the equipment / instrument shall be given separately.
22. The Institute will not be responsible for any delay on the part of the tenderer in submission of the tender bids. Any bids received by the Institute after the deadline prescribed for submission of bids, will be rejected.
23. Tender by Tele-fax/telegram/fax/e-mail will not be accepted.
24. Handwritten quotations shall be accepted at the bidder's risk. If there is a discrepancy between words and figures, the amount in words will prevail.
25. The successful tenderer have to supply the instruments/equipments as per the purchase order within 120 (One hundred and twenty) days from the date of issue of the order.
26. SECURITY DEPOSIT (SD): The successful bidder(s)/tenderer(s) should deposit security money @ 5% of the total value of the order within 15 days of issue of the supply order **which will be refunded on completion of warranty period.** Otherwise, the EMD deposited with the tender will be forfeited and the order placed will stand cancelled. Generally, the security deposits will not be refunded unless all item(s) are supplied and successfully installed to the satisfaction of the Director, IFGTB, that too, after 60 days, beyond the date of completion of all contractual obligations of the supplier including guarantee obligation which will be calculated from the date of successful installation of the instrument/equipment. The security deposit furnished by the tenderer will be refunded as per rule.
27. Any instruments/equipment fail to conform to the specifications, the Institute may reject the instruments/equipment and the supplier shall replace the rejected instruments/equipment with a new one to meet specification requirements free of cost to the Institute.
28. The instruments/equipments supplied shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. For delivery of instruments/equipments at site, the insurance shall be obtained by the Supplier in amount equal to 110% of the value of the instruments/equipments from “warehouse to warehouse” (final destinations) on “All risks” basis including war risks and strikes.

29. Upon delivery of the instruments/equipments, the supplier shall notify the Institute and the insurance company by cable/telex/fax/email the full details of the shipment including contract number, railway/roadways/airlines/ship's receipt number and date, description of instruments/equipments quantity, name of the consignee etc., The supplier shall mail the following documents to the Institute with a copy to the Insurance company.
- a) Four copies of the supplier invoice showing instrument/equipment, description, quantity, unit price, total amount;
 - b) Railway/roadway/airlines/ship's receipt/ acknowledgement of receipt of instruments/ equipment from the consignees(s)
 - c) Insurance certificate
 - d) Manufacturer's/Supplier's Warranty Certificate
 - e) Certificate of origin.
30. The above documents shall be received by the Purchaser before arrival of the instruments/equipments (except where the instruments/equipments have been delivered directly to the consignee with all documents) and, if not received, the supplier will be responsible for any consequent expenses.
31. The Supplier shall provide such packing of the instruments/equipments as is required to prevent their damage or deterioration during transit. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Package case size and weights shall take into consideration, where appropriate the remoteness of the instruments/equipments final destination and the absence of heavy handling facilities at all points in transit.
32. If the Supplier fails to deliver any or all of the instruments/equipments within the period(s) specified, the Institute shall, without prejudice to its other remedies, deduct from the Security Deposit, as liquidated damages, a sum equivalent to 0.5% of the delivered price of the delayed instruments/equipment or unperformed services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10% of the instruments/equipment price. Once the maximum is reached, the Institute may consider termination of the purchase order.

33. All correspondences and other documents pertaining to the purchase of instruments/equipments which are exchanged by the parties shall be written in English.
34. The Supplier may be required to provide any or all of the following services,
- i. performance or supervision of the on-site assembly and/or start-up of the supplied instruments/equipments;
 - ii. furnishing of tools required for assembly and/or maintenance of the supplied instruments/equipments;
 - iii. furnishing of detailed operations and maintenance manual for each appropriate unit of supplied instruments/equipments and
 - iv. training the Institute personnel in operation and maintenance of the supplied instruments/equipments
35. All correspondence(s) / notice(s) shall be effective from the date on which it is delivered or on the notice's effective date, whichever is later.
36. The Supplier may be required to provide any or all of the following materials notifications and information pertaining to spare parts manufactured or distributed by the Supplier:
- i. such spare parts as the Institute may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
 - ii. In the event of termination of production of the spare parts:
 1. advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure spares needed to meet requirements; and
 2. following such termination, furnishing at no cost to the purchaser, the blueprint drawings and specifications of the spare parts, if requested.
37. The supplier warrants that instruments/equipment supplied are new and unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise. The Supplier further warrant that all instruments/equipments supplied shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Purchaser's

specifications) or from any act or omission of the Supplier, that may develop under normal of the supplied goods in the conditions prevailing in the country of final destination.

38. Payment shall be made in Indian Rupees as follows:

- i. *on Delivery*: 75% of the instruments/equipments price shall be paid on receipt of instruments/equipments and upon submission of the documents; and
- ii. *On Final Acceptance*: the remaining 25% of the Contract Price shall be paid to the supplier within 30 days after the date of Acceptance Certificate issued by the Institute after installation.

39. PENALTY CLAUSE:

On breakdown of the Instrument/Equipment, the maximum time to attend the complaint is 3 working days from the date of lodging of the complaint. Otherwise penalty charges of Rs.500/- per day on items whose value is upto Rs.10.00 lakhs plus an additional amount of Rs.25/-per lakh per day will be charged to the authorized service agent of the Manufacturer/ Supplier. Any rectification during the guarantee period should be done within 21 days from the date of report of the Service Engineer of the Manufacturer/Supplier for repair of the equipment/instrument in case of requirement of spare parts. Otherwise, the above penalty charges will again be imposed from the 21st day from the date of first report of the Service Engineer till rectification of the Instrument/Equipment. The Manufacturer/Supplier is bound to extend the guarantee of the equipment/instrument equivalent to the number of days for which the instrument/equipment remain idle due to the break down. However, IFGTB will claim no extension of guarantee for the instrument/equipment lying idle due to break down for a total number of 24 days per year in the guarantee period. Both the Manufacturer/Supplier and their authorized service agent in this regard may furnish an undertaking along with the Price Bid.

40. Each page of the general terms and conditions supplied with the tender should be duly signed as a token of acceptance of all terms and conditions of the tender. No deviation in

the terms and conditions of the tender notice will be accepted. The supporting documents should be duly stamped & signed by the tenderer(s) otherwise rejected. No retyping of the general terms and conditions supplied is accepted. Submit this terms and conditions duly signed along with the technical bid.

41. Tenderer submitting tenders are deemed to have seen, understood and accepted all the terms and conditions.
42. The tenderer shall identify the parts of the instrument/equipment that are likely to go out of order due to poor maintenance, electrical fluctuations, etc. and give cost of essential spares including the cost of freight, insurance, handling charges, etc. The warranty period of the extra spares shall be given separately.
43. The cost of maintenance beyond warranty period shall be quoted for each year.
44. The Director, IFGTB, Coimbatore reserves the right to cancel/reject, full or any part of the tender, without assigning any reason. No correspondence will be entertained in this regard.

**Director
IFGTB, Coimbatore.**