



CENTRAL AGRICULTURAL UNIVERSITY
College of Veterinary Sciences & Animal Husbandry
Selesih, Aizawl: Mizoram

TERMS AND CONDITIONS FOR PURCHASE OF EQUIPMENT

1. Rates quoted shall clearly mention taxes/levies, packing, forwarding, freight, transit insurance, octroi, delivery charges, installation and demonstration at College of Veterinary Sciences & Animal Husbandry, Selesih as per quoting instructions. This Institution is exempted from Excise & Custom duties; hence, should not be included. If necessary it may be mentioned separately. The DSIR, Govt. of India Registration Certificate for Excise & Custom duties exemption along with requisite documents will be provided at the time of purchase.
2. All the equipment shall be delivered in India for payment in Rupees in India. Only **equipment of reputed brands and duly registered** (Registration certificate to be enclosed) shall be quoted. Quotations for unregistered brands/assembled equipments will be summarily rejected.
3. 2 % Earnest Money deposit (EMD) forms an integral part of the tender without which the tender will be invalid. The EMD will be returned to unsuccessful bidders after the purchase decision is taken.
4. Copy of ISO/Quality Assurance Certificate, quality control certificate, authorized dealership certificate/Registration certificate with DGS&D and as applicable from the manufacturer has to be furnished. Detailed specifications for the quoted equipments should be given in the quotation and should be supported by product brochure of the manufacturer.
5. Delivery, installation and demonstration of equipments has to be made at the Institution, which is 12 Km. short of Aizawl, located on Aizawl-Sihphir-Silchar Road. No responsibility will be taken to receive consignments from any other agency.
6. Consignee: Dean, College of Veterinary Sciences & A.H.(CAU), Selesih, Aizawl – 796 014, Mizoram.
7. Rates quoted should be valid for at least one year from the last date for receipt of the quotations. The quotations should be accompanied with manufacturer's consumer price list in effect for the said period & in no case should exceed the listed price. However, if there is decrease in the manufacturer's price on the date of supply (billing date) the same has to be passed on to the Institution if the brand is selected for purchase based on open tender.
8. Supply must be completed within 45 days from the date of issue of supply order unless otherwise specified; failing which the order may be cancelled.
9. No advance payment will be made prior to delivery and installation of the equipments/appliances to the full satisfaction of the indenter.
10. The equipment/appliances should be meeting the specifications in the tender document and any deviation in that matter may result in rejection.
11. At least one-year warranty should be provided from the date of delivery and installation and free service should be provided at the Institution during this period, if necessary.
12. Supply will be made at supplier's risk and any damage/breakage before the installation/delivery has to be replaced by the supplier without any extra cost.
13. **In case of poor quality and unsatisfactory operation of equipment/appliances the Institution reserves the right to reject them at the time of delivery and installation.**
14. **The dealer/manufacturer has to provide manufacturer's quality control/test certificate of each equipment/appliances without fail at the time of supply.**
15. After successful execution of a supply order payment will be made within 30 days.
16. The Institution authorities reserve the right to accept/reject any or all of the tenders received without assigning any reason there of. In case of any dispute, the decision of the University authorities shall be final and binding.
17. Where purchase is made through LC, 10 % of the basic cost of the equipment will be released in Indian Rupees only after satisfactory installation and demonstration of the equipment.

DECLARATION

I have gone through the above terms and conditions and agree to abide by them in the event of receipt of a supply order from the Institution based on tender. I understand that in the event of tender being quoted is not as per the quoting instructions; it may invite rejection of the tender.

Date :

Place:

Signature of the Bidder

QUOTING INSTRUCTIONS

1. No clear mentioning of packing, forwarding, freight and insurance charges in the tender will be considered as incomplete; and will be rejected.
2. Optional accessories offered by the bidder would not be taken into consideration for the evaluation of bid.
3. Alternate offer is not permitted. **In case of quoting of more than one offer, only the lowest one will be consider as valid one and the others will not be considered for evaluation of bid.**
4. **Quote must include all accessories asked for by the indenter. If the accessories are not detailed in the product brochure it must be clearly mentioned in the tender along with their price. Otherwise it invites rejection on the ground of incomplete quote.**
5. Expected working life of the equipment is an important specification and may clearly be mentioned in the quote for all items.
6. Only certified, legible copies of valid dealership/ manufacturer certificate will be entertained. If the copies are not legible it may invite rejection.
7. **Only original/ certified, legible copies of product brochure containing complete “technical specifications” will be entertained. In case, the product brochure does not give the detailed technical specifications, a separate sheet giving complete technical specifications and duly signed by the bidder may be enclosed. The technical specifications must include details on capacity, functionality of the equipment, expected working life of the equipment, specifications of mechanical parts, optical parts, battery, battery life etc. Quote without product brochure and the product brochure without detailed technical specifications invites rejection.**
8. The tenderer shall mention whether he has supplied identical or similar equipment to any ICAR/ CAU laboratories/institutions in the preceding three years. If yes, details of such supplies and their price shall be mentioned along with the item quoted.
9. Only valid DGS&D registration Certificate for the items manufactured and in the approved list may be enclosed.
10. It may be noted that rates should be quoted keeping in view the specific requirements for installation of the equipments. The College will not provide anything except for the space, water and electricity connections.

How to Quote?

1. The complete quote for equipment must clearly mention the following parts–
 - a) Unit price of the equipment (conforming to complete specifications including accessories) as mentioned in the tender document.
 - b) Institutional discount offered for equipment (including accessories as demanded by the indenter). If no discount is offered it shall be mentioned as nil.
 - c) Taxes/duties/levies/surcharges of Govt. of India, state government etc. (This institution is exempted from excise duties and custom duties).
 - d) Packing, forwarding, freight, insurance charges for the items quoted. If no extra charges are required it shall be mentioned as nil.
 - e) Other charges, if any.
 - f) Total prices for F.O.R Selesih. (Add all the above from “a” to “e”)
 - g) Prices of optional consumables or accessories or spares.

All above items from “a” to “g” shall form the complete quote.

2. The bidder shall quote equipment wise, clearly mentioning the Item serial no. and Item Code no. mentioned in the tender document. Each quote shall be complete in all respects fulfilling complete specifications including accessories mentioned by the indenter and all the terms and conditions.
3. Warranty offered for the equipment.
4. Terms of Delivery.
5. Delivery schedule.
6. For all the items the **bid shall be submitted item wise in separate envelopes** with clear superscriptions (as required for each item) along with item serial no. and item code no. as per tender document **all put together in a single envelope with superscription as instructed in general instruction no. 1.**
7. All the bidders shall give information on availability of Annual Maintenance Contract/ After Sales Service for F.O.R Selesih.
8. Only signed terms and conditions page need to be returned with the tender. Detailed list of equipment and other specifications need not be sent back.

General Instructions:

1. Tender shall be submitted in Sealed Envelop superscripted Tender No. P-7/CVSc/CAU/NTP/2009/ 1041 dated 06.11.2009 and the last date for submission is 11.12.2009 up to 3.00 p.m. and 15.12.2009 up to 1.00 p.m. at New Delhi and Aizawl, respectively. The duly filled Tenders in all respects must reach either:

**The Liaison Officer,
Central Agricultural University,
Room no. 202,
Krishi Anusandhan Bhavan-II,
Pusa campus, New Delhi-110 012
(On or before 11. 12. 2009 up to 3.00 p.m.)**

Or

**The Dean,
College of Veterinary Sciences & A.H.
Central Agricultural University
Selesih, Aizawl-796014
Mizoram.
(On or before 15. 12. 2009 up to 1.00 p.m.)**

2. The Tender shall be sent only by registered post or Speed Post.
3. The Institution will not be responsible for late/ delayed delivery of Tender.
4. The Tender shall be accompanied with following documents.
 - i) Tender fee for an amount of Rs. 1000/- (Rupees One Thousand) only in the form of Demand Draft drawn in favour of the Dean, College of veterinary Sciences & AH, Selesih, Aizawl payable at State bank of India, Bawngkawn Branch (Branch Code: 05900), Aizawl.
 - ii) Copy of the registration Certificate of the manufacturer/authorized dealer.
 - ii) Copy of manufacturing license of manufacturer/authorized dealership Certificate.
 - iii) Copy of last tax returns certificate of the tenderer.
 - iii) EMD in shape of crossed Demand Draft (@ 2 % of the cost of the equipment separately equipment wise) in favour of Dean, College of Veterinary Sciences & A.H. Selesih, payable at SBI, Bawngkawn Branch, Aizawl.
 - iv) Product technical specifications brochure in support of the items quoted.
 - v) Copy of quality assurance / quality control certificates/DGS & D registration certificate.
 - vi) Terms & conditions form duly signed.
5. **Opening of Tender documents: 15.12.2009 at 2.00 p.m.**
6. **Venue:** Administrative Block, College of Veterinary Sciences & Animal Husbandry, Selesih, Aizawl, Mizoram.

TECHNICAL SPECIFICATIONS FOR EQUIPMENTS

Item Sl. No.	Item Code No.	Item	Specifications
01	VPT-01	Vertical Laminar Flow Cum-biosafety Class II Cabinet	Made of high quality stainless steel, minimum 5 ft (L) x 2.5 ft (B) x 3 ft (H), Dual long life ULPA filter efficiency of >99.999 % for 0.1 to 0.3 micron particle, Microprocessor controlled monitoring system, Removable one piece working surface, NSF/EN accredited biosafety cabinet, Low noise (<60dBA), Equipment should include base stand, foot rest, adjustable hydraulic stand, fitted with instant start lamp, UV lamp, permanently lubricated external rotor/blower, frameless shatterproof front door/sash window, stainless steel arm rest, air flow ;down flow 70% , exhaust 30%, cock for gas, air or vacuum line.
02	VPT-02	Dehumidifier	Range: Upto 30% down from ambient, Controller: Electronic display digital % R.H. (Humidity) Controller, Sensor: Standard Inbuilt Sensor, Accuracy: ± 3% R.H., Uniformity: ± 5% R.H., Outer Chamber: Mild Steel Powder Coated / Stainless Steel 304 quality, Capacity: 2.0 Tons, Power Consumption: 12 amps, Operational Voltage: AC220-240 V & 50 Hz cycle, Servo Voltage Stabilizer.
03	VPB-01	Deep freezer (-86°C) Upright with high quality compatible stabilizer	Temperature ranges from -50°C to -86°C, Capacity: 30-32 Cu Ft, Upright type, Programmable, stainless steel interior; High Density (HD) insulation;10 inner doors, 5 shelves; Low noise & Low Energy consumption; Digital display (Alarm display as text), programmable; Visual / Acoustic Alarm; Power failure Alarm; Adjustable High / Low Temp. Alarm; Open door, probe failure, wrong power and high stage failure alarm; Instrument Failure Alarm; Microprocessor Set point controls for temperature and alarm, On board diagnostics; Door mounted pressure equalization port; Factory-Installed LN ₂ back-up system; 72 Hour Battery Backup for Alarms /Temp. display; Adjustable Grid dividers & Pullout defrost drain; 100% CFC / HCFC Free and environment friendly; Sealed drawers to prevent frost escape; Stainless steel inventory racks(sliding drawer for vials and microplates) with fiberboard 2" boxes and dividers; Integrated back up system; Automatic Voltage Buck/Boost system; Temperature recorder (built-in); Cryo gloves (medium).
04	VPB-02	Automatic Weather Station	Portable, can be fitted to rooftop with tripod stand, with data collection system combined with intel based PC, Climatological data base system with climatographic web interface, display UDS-111 microterminal with sensor like: wind speed and direction (0-240 Km/hr & 0-360 ⁰ , ultrasonic anemometer-2D, barometric pressure(150-1150 mbar), PT-100 thermometer (-25-110 ⁰ C), sunshine duration sensor, MRH rain-gauge (0-240 mm), relative humidity calibrator (0-100 %), solar radiation sensor (0-130,000 lakhs), radiation shield, should have RF transmission facility. Power supply: solar panel + battery or external power. <u>Personal computer</u> : Pentium D, compatible for the above equipment.
05	LPM-01	Darting Gun	Art: 4019; Length : 1130mm; Weight:2600g Range:70 m; Calibre :13 and 11mm; Gas operated, automatic with all accessories.
06	CIF-01	Peltier based 96 well thermal-block thermocycling real-time PCR (qPCR) system along with accessories	A user friendly high precision/efficiency multiple application qPCR system to serve as a multiple user platform with suitable multi-application software with the following Specifications: THERMAL CYCLER: Block Format : 96 wells; accommodating 96-well plates in all standard formats of any reputed brand, 96 - 0.2 ml tubes, 12 - 8x0.2ml strips with optically clear top sealing/ lid. Option for pipetting automation integration (price quoted separately with bundled offer price) and upgradation to 384 well formats in future may be clearly mentioned. Thermocycling: Peltier-based 96 well block thermal cycler Preferably with silver block Ramping rate: Heating: ≥ 4.5°C/sec (effective), Cooling: ≥ 2.5°C/sec (effective) Lid Temperature: Up to ≥100°C Temperature control range of block: 4°C - 95°C or wider with 0.1°C increments Temperature control range of gradient: 35°C - 95°C or wider Degree range of gradient: 1°C - 24°C or wider Temperature uniformity: Displayed block temperature± 0.25°C or better in any well of a plate, 30 seconds after clock start (0.5°C maximum difference between any two wells) Temperature accuracy: ± 0.25°C of

		<p>set point/display temperature, measured at 3 minutes after clock start</p> <p>Reaction Volume: As low as 10µl or less with assured vaporization and lid condensation prevention technology Dynamic Range: 10⁹ or better (better may be preferred) Sensitivity Down to single copy of target sequence in 10 µl reaction volume with 99.7% confidence. Run Time (40 cycles) : As early as < 45 minutes using fast cycling protocol Power failure sample protection: In built auto save/resume function in case of accidental power failure/ switch off of the instrument Operating Power supply: 220V ±10%, 50Hz AC</p> <p>OPTICAL SYSTEM</p> <p>Excitation Light source : Xenon lamp/Quartz tungsten halogen lamp/LED Laser (one spare lamp is to be supplied in case of replaceable limited life lamp) Detector : PMT/Cooled CCD/Photo detection diodes Emission Filters/detection channels: ≥4 independent short pass filters in the range 510/520, 550, 580, 605/610,640,660 nm or any suitable filter matching the latest excitation and detection system with elimination of crosstalk Fluorescence Chemistry: hydrolysis probes, FRET probes, molecular beacons, Scorpions, Amplifluor, SYBR Green I Multiplexing Supported: ≥4-plex auto-setup (hardware as well as software controlled for maximum sensitivity) Calibration: Instrument should be pre-calibrated and should have the auto calibration and normalization feature with change in experiment conditions. Passive Reference: Optionally ROX or any other calibration dye, Software specifications: User friendly Windows XP sp3 and Windows Vista sp1 certified qPCR system management and data analysis software with the following features. The software should be the latest release with fixes for issues if any. The release date should be mentioned. Single click experiment setup with preset options for wide range of experiments viz. Absolute Quantification, Tm Calling, Absolute Quantification Analysis, Relative Quantification Analysis, Endpoint Genotyping, Melting Curve Genotyping etc. for gene expression analysis, allelic discrimination, melting curve analysis etc. in order to serve as a multi-user platform. Software capable of discriminating the fluorescence of different dyes eliminating crosstalk. Software capable auto base line determination. Software capable of comparing multiple plate data. Software capable of multiple modes of graphical representation of analyzed data. Data Export capability to excel sheet & email and images to JPEG and Power point etc. Bundled primer and probe designing software. Title 21 Code of Federal Regulation part 11 Compliance.</p> <p>Other Accessories: Desktop computer with Intel® Q9300 or better processor (≥6MB L2 cache) with motherboard capable of supporting 1600MHz FSB processor on LGA775 socket, ≥4GB DDR3/DDR2 SDRAM occupying not more than two slots with two memory slots free and at least 512 MB dedicated PCI Express graphic accelerator, ≥500GB 7200 rpm SATA 300 hard disk, DVD±R/RW 16X: 12X ±DL LS 12X RAM Super Multi SATA drive, 10/100/1000Mbps RJ45 ether net, wireless LAN, inbuilt multi-memory card reader, USB2 & IEEE 1394 front panel I/O ports, 22” wide screen high definition TFT monitor, 2.1 speaker (full range ≥5W RMS x 2 L & R) set, tie clip mike with ≥3 meter lead, USB mouse and keyboard, colour laser printer, Windows XP sp3 and Windows Vista sp1 Home Premium (or better), Fully Licensed MS Office 2007 & CD/DVD writing software, ≥1 year Licensed Internet Security software. A Reputed brand online sine wave UPS of appropriate rating for a cold start (not less than 2000VA with 0.8 power factor) with external SMF battery (>18 months replacement warranty) backup capability of at least 2hours to the instrument along with the Desktop computer system and printer. Suitable CVT/ Servo stabilizer for the UPS should be also included if the supplier feels appropriate for warranty coverage since mains voltage may range between 90 – 300 volts on a single phase AC supply. Since the ambient conditions would be 12°C - 35°C with ≥95% average annual relative humidity (condensing) with a dusty environment, a two ton split HVAC, air de-humidifier and air particle remover has to be provided and installed by the tender to maintain efficient functioning of the instrument and warranty validity. Any other special furnishings/ fixtures/ civil works specified by the tenderer shall be to the account of the tenderer. The institute is a non-profit making educational institute and eligible for duty</p>
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			<p>free import. However, custom clearance at air-port/ seaport if required has to be the responsibility of the tender and the expenditure shall be to his account. The price quoted shall be inclusive of all on FOR destination basis including installation, demonstration with starter kit (multiplex and SYBR Green) and validation by demonstration of dynamic range and detection sensitivity.</p> <p>Comprehensive Warranty and service support License: At least for two years with assured Indian service provider of the foreign principal for at least 5 years supported by user list and performance report from at least 5 users. The system should be licensed for the various research applications and the methodology that are to be employed with fully licensed softwares.</p>
07	LPT-01	Food Texture Analyzer	<p>Should be able to evaluate the texture profile e.g. hardness, firmness, springiness, shear strength, cohesiveness, freshness, fracturability, toughness, tenderness, brittleness, resilience, consistency etc. of meats, meat products, vegetables, milk products (sweets and curd etc.).</p> <ul style="list-style-type: none"> - Force capacity: 750 Kg; Force resolution: 0.1 g - Load cells: 5, 30, 50, 150, 200, 500, 750 Kg; Speed range: 0.01 – 20 mm/s @ 500- 700 Kg.f; Speed accuracy: >0.1%; Range setting: 0.01 – 524mm; Range resolution: 0.001mm; Net weight: 37 Kg or less. Dimensions: 980 x 330 x 300; Load cells: Directly interchangeable by the user and store factory information in ‘onboard’: load cell accuracy: 0.5%; Data channels: Two linear analogue inputs range 1-4.5V; temperature probe inputs: -50°C to +250°C. Biphase digital encoder input at 24 bit. Data acquisition rate : upto or >500pps for each data channel; Channels: ≥4: dust and splash resistant; interface to PC through a standard RS232 serial port; Flash update of firmware via PC; free download of the latest version of firmware and software; free micro writing facility in English; EXP/L; Exponent lite software; NEXYGEN plus Data analysis software; P/25 25mm cylinder probe; P10 10mm dia cm dia cylinder probe P45C 45⁰ conical probe; P5S 5mm spherical probe; HDP/CSF: Crise fracture support ring; HDP/BS : Blade set; P/36R 35mm dia cylincer probe; P/0.5R; S/½ inch diameter C.P. with radius; A/KIE: Keifer dough extensibility rig; HDP/3PB;# benzing rig; HDP/KS5; Krammer shear cells 5 blades’ HPL/CEL 100:100 Kg load cell kit for HD+. Test information should easily be exported to Word, Excel, outlook etc. <p>High resolution backlit LCD Display with intuitive operator interface, Gelatin Bath System available for sample conditioning.</p> <p>Computer (TFT Monitor of 1280 x 1024 resolution or above) along with colour printer (Inkjet all –in-one) and UPS 2KVA: Stabilizer of 3 KV</p>