



INDIAN COUNCIL OF AGRICULTURAL RESEARCH
ICAR RESEARCH COMPLEX FOR N. E. H. REGION
UMROI ROAD, UMIAM, MEGHALAYA-793 103



No. RC(S) 166/2012

Dated Umiam, the 7th May'2013.

Sealed bids are invited for procurement of Scientific Equipments/ Instruments from the reputed registered firms/ manufacturers/ authorized dealers by ICAR Research Complex for N.E.H. Region, Umroi Road, Umiam, Meghalaya. Detailed specifications of the items & terms & conditions, etc are given below:-

1. **Cost of Tender paper of Rs. 1000.00 only**(Non – refundable) to be deposited in the favour of the Director, ICAR Research Complex for NEH Region, Barapani by means of Demand Draft/ Banker's Cheque, etc., payable at SBI, ICAR Complex Barapani. Non – submission of the cost of Tender paper shall lead to non – consideration of the Tender.
2. **Separate quotations must be submitted for individual items.** Every quotation should consist of two Bids- The techno-commercial bid (Bid 'I') and the financial bid (Bid 'II'). Both must be submitted in two separate envelopes to be sealed and put in a single main cover. The outer main cover should be super scribed "TENDER NO. RC(S)166/2012 dated 07/05/2013 for procurement of Scientific Equipments/ Instruments, I.C.A.R RESEARCH COMPLEX, UMIAM" under Projects and addressed to "THE DIRECTOR, ICAR RESEARCH COMPLEX FOR NEH REGION UMIAM, MEGHALAYA-793103". The Bidding Firm should give their complete address on the bottom left corner of the Main Cover. **The Cost of the Tender as well as the Earnest Money along with all other Technical Details should be mandatory kept in the Technical Bid only. The Financial Bid should consist of the Rates, their detailed break –ups, etc. Non-compliance of this shall lead to non-consideration of the Bid.** All Tenders should be sent by Registered Post. Tenders to be hand delivered should be put in the Tender box, kept in the CAO(S) Office of the ICAR Research Complex for NEH Region, Umiam, Meghalaya-793103 not later than **12:30 P.M. on 5th June,2013.** Tenders received after the due date and time shall not be considered under any circumstances.
3. **The rates quoted should be up to ICAR Research Complex for NEH Region, Umiam, Meghalaya, (as per the details) for the mentioned items.** The rates must be valid for at least for 6(six) months from the date of quotation.
4. **Price quoted must be given per unit and must be all inclusive, including packing, forwarding, Delivery charges, Taxes, VAT etc., as may be applicable.**
5. Attested copy of the up to date sales tax and income tax clearance certificate (if any) from the authority concerned should be submitted with the quotation.
6. Furnishing of related documents like detailed specifications, technical literature, brand name, model and make, catalogue, authorization letter, Dealership Certificate, price list (if any) etc. is mandatory, failing which the quotation shall not be considered. Dealership certificate/Agency Certificate for the manufacturer/ manufacturing firm should be enclosed if the rates are quoted by the Dealers/Agents.
7. **The supply is effected at DGS&D rate contract, wherever is applicable.** The rate should be quoted for list of items as per the tender document.
8. The Buyer shall not be responsible for payment of transit insurance charges.

9. Payment shall be made on actual delivery in good condition and successful installation and demonstration (which should be free of cost and must be completed before payment).
10. (a) **In case of imported goods, the price may be quoted in foreign currency and import will be on FOB basis.** However, custom clearance, Inland freight etc. will be the responsibility of the supplier and no separate charges will be paid for that, however, custom duty exemption certificate shall be provided. The supplier should inform well in advance for sending these papers. No demurrage charges will be paid. If the supplier desires, rate in corresponding Indian currency may be quoted. It will be at the discretion of the authority of ICAR Research Complex for NEH Region to accept Indian or Foreign currency prices.
- (b) In case of any custom duty charge, applicable as per Govt. of India's Notification, the same may be paid by the firm which will be reimbursed to the Indian Agent (who should be a registered firm and with DGS&D) immediately, subject to the condition that the bill of entry in original along with all relevant papers are submitted immediately, after custom clearance and installation and demonstration of the items. Installation and demonstration should be free of cost.
- (c) **The import & payment will be made by means of Foreign Bank Draft/ Site Draft in case of foreign imported goods.** Performance Bank guarantee of 10% FOB value valid till the end of warranty period should be submitted before the release of the security deposit. All bank charges outside and inside India shall go to the beneficiary's account. Performance bank guarantee of 10% FOB value, valid till the end of warranty period, should be submitted before the release of the security deposit. All bank charges outside and inside India shall go to the beneficiary's account. Draft making charges would go to the beneficiary's account and a scanned copy of the draft, if required, can be sent to the Indian agent by post. Draft would be handed over after successful installation and demonstration which should be completed within 45 days from the date of draft and submission of all documents like bill of entry etc.
- (d) All imported items should be delivered up to destination i.e. all the import should be free of inland freight charges, insurance etc.
- (e) **Indian Agency Commission rate and amount should be clearly specified as per rules. IAC, wherever applicable, will be paid in Indian Currency only.**
- (f) In case of delay in supply, penalty will be imposed @2% per week, subject to a maximum of 10% of the FOB value
- (g) Indian Agents quoting on behalf of their principal must be registered firms with DGS&D .They are also requested to provide necessary authorization letter from their principal along with the quotation.
- (h) **ICAR Research Complex for NEH Region, Umiam, Meghalaya, being a Scientific and Research Organization, is exempted from payment of Excise Duty (Certificate to this effect will be provided).**
11. **All Bidders should mandatory give their current, PAN Card No., TDS& other Bank A/C details to enable the office for releasing the dues via e- payment basis.**
12. **The tenderers [except those who are registered with the Central Purchase Organization & National Small Industries Corporation (proof should be mandatory enclosed)] shall have to deposit 2.5% of the quoted amount (for indigenous as well as for foreign items quoted in foreign currency, equivalent Indian currency may be deposited) in the form of Demand Draft/ Banker's Cheque/ Bank Guarantee, valid for 6 (Six) months, drawn in favour of the Director, ICAR Research Complex for NEH Region, Umiam, Meghalaya, payable at Barapani, as a bid security, along with the quotation. Non submission of the Bid Security with quotation shall make the quotation/ bid liable to be rejected.**

13. Performance Bank Guarantee is required for all indigenous items also. For items less than Rs.50, 000, the amount should be 5% of the actual cost of the equipment and for items more than 50,000.00 the amount should be 10% of the actual cost of the equipment. The bank guarantee should cover the entire guarantee/ warranty period which should be of at least one year duration.
14. The selected tenderers must complete the supply/ installation/ demonstration within the stipulated time limit mentioned in the supply order. In case, the firm fails to execute the supply within the time limit, the bid security would stand forfeited and supply order shall be cancelled.
15. The guarantee/ warrantee should be from the date of installation. All guarantee/ warranty services should be attended within a maximum limit of 15 days, failing which, proportionate deductions from the security deposit may be made at the discretion of the Institute.
16. The Firm/ Agency run by the Non-Tribal should produce Trading License issued by the KHADC at the time of awarding the Contract.
17. The complete details regarding the Institutions/ Corporations/ Bodies, etc. where the Firm/ Dealer has made the supplies during the last 2/3 years should also be furnished, along with the supply orders.
18. The Bidders should mandatory provide their full Bank Details, PAN Card No. , IFS code No., and TDS so as to ensure e-payment to them directly on satisfactory completion of the Supply.
19. The Director, ICAR Research Complex reserves the right to reject any tender in part or full, without assigning any reason thereof.
20. Legal jurisdiction for all disputes shall be within the purview of the Shillong Court.
21. **All bidders shall give an undertaking that they fully and unconditionally agree to abide by all the terms and conditions which, if needed, may be modified at the discretion of the Competent Authority, in supply order, for which confirmation from the supplier shall be taken. Non submission of the undertaking may lead to rejection/ non-consideration of the tender.**
22. **The bidders should mandatory sign on every page of the Tender Document, which would show their unconditional acceptance of all the terms and conditions of the Tender Document.**
23. Tenders shall be opened on 5th June, 2013 at 12:30 pm, ICAR Research Complex for NEH Region, Umiam, Meghalaya. Interested bidders may attend the opening.
24. Other terms & conditions, as may be decided by the Competent Authority from time to time, depending upon the condition & requirement of the supply. The intimation in this regard, shall be provided well in advance & the bidder/ supplier shall be bound by the said terms & conditions.
25. For any query/ clarification, the undersigned may be approached at:
Contact No.: 0364-2570363 (Tel- Fax)
E-mail : kejoshiicar@yahoo.in

Sd/-K. C. Joshi
Chief Administrative Officer

Details Specification of the Equipment/Instrument

For ICAR, Head quarter, Umiam

Sl. No.	Name of the Items	Specifications
<p><i>I. Animal Health Division, under Project entitled "Development of Nucleic acid and ELISA based diagnostic tests to determine incidence of porcine respiratory and reproductory syndrome (PRRS) in the North East and evaluation of the prospects of a potential candidate vaccine against the disease"</i></p>		
1.	<p>-20°C deep freezer along with storage boxes and stabilizer</p>	<p><u>Specifications</u></p> <ul style="list-style-type: none"> • Upright model (vertical) • Double door with locking system • Operating temperature: -15°C to -25°C • Capacity: Minimum 340 liters • Programmable control system with safety alarm • 3-5 interior compartments/shelves • CFC free refrigerant • Digital display of temperature • Durable, high impact plastic/ stainless steel interior • Electrical requirements: 220-240 volts, single phase, 50Hz to suit local conditions • On site service as and when required. <p><u>Accessories:</u> Essential accessories for operation of Unit. A set of essential spares, Racks with 2 inch boxes & Cell divider. Chart Recorder for continuous monitoring of freezer temperature etc, stabilizers (1 KV) etc</p>
2.	<p>CO2 incubator complete with accessories including regulator and cylinders</p>	<p><u>Specifications:</u></p> <ul style="list-style-type: none"> • Air/water jacketed with separate chambers. • Capacity: 160-180 L. • Temperature from 5 °C to 50 °C. • Programmable control system • Auto sterilization/Internal sterilizer/UV Light. • Accuracy of temp. ±0.1 °C. • CO₂ Range 0-20%. • With LED/LCD display, cord, spacer etc. for two years. • Electric point within the chamber/incubator for multipurpose work. • Warranty : Minimum 1 year onsite service as and when

		<p>required <u>Accessories:</u></p> <ul style="list-style-type: none"> • CO₂ Cylinder with 20-25 kg capacity- 2 Nos • CO₂ Regulators (2 Nos) with automatic changeover facility • Voltage Stabilizer (Minimum 1 KVA or compatible with the instrument)
3.	Nano Quantity spectrophotometer	<p><u>Specifications:</u> Should be a full spectrum UV/Vis spectrophotometer to quantify nucleic acids, proteins, fluorescent dyes and other compounds.</p> <ul style="list-style-type: none"> • Wavelength range: 220-750 nm • Sample size: 1 microliter (Preferable) • Absorbance precision: 0.003 absorbance (1 mm path) • Wavelength accuracy: 1nm • Detection limit: 2-3000ng/microliter (dsDNA) and above • Measurement cycle time: 10 seconds (Preferable) • Nature of samples: Both diluted and concentrated • Types of sample: For measuring absorbance of ss/dsDNA and RNA, dyes, proteins, and other compounds and microbial cell culture OD • Electrical requirement: 220-240 volts, single phase, 50Hz to suit local conditions • Sample preparation: No dilution required for DNA/RNA or protein samples • Other: Measurement should not require use of consumables, cuvettes or capillaries <ul style="list-style-type: none"> ○ Should able to export display and save data ○ Onsite service as and when required <p><u>Accessories:</u> The machine should be complete with accessories (computer including analysis software and printer) to read, analyse, export, store and print the data, compatible Microsoft Windows XP/7/8. The Hardware should be minimum Intel i3 processor with at least four USB ports, optical mouse, keyboard, TFT monitor, DVD/Blue Ray RW Drive, 4GB RAM, 500GB hard drive, genuine Windows OS (XP/7/8), Professional Antivirus with 2 years validity, On line reputed make UPS (1KVA) with 60 min backup.</p> <p>Warranty: Minimum 1 year onsite covering main instrument and accessories.</p>

4.	Thermal cycler gradient	<ul style="list-style-type: none"> • Thermoblock-silve • Temperature control range-4-99°C Heating technology of the block-Peltier Elements, • Gradient block- Over 12 columns • Gradient range- 1-24°C • Gradient temperature range-30-99°C • Heated Lid • Heating rate- minimum 5.5°C/s • Cooling rate-minimum 4.0°C/s • Interfaces- 1x RS-232, Control panel, one each of CAN_in/CAN out Power supply- 120 V, 50/60 Hz • 2 year warranty on site • Upgradable to real-time PCR • Other: On-site service as and when required <p><u>Accessories:</u> High quality extension board and cord of reputed brand The machine should be complete with accessories (including analysis software), (control panel or cycle manager software, all cables, validation, On line reputed make UPS (3KVA) with 2 hour mm backup.</p>
5.	HIGH SPEED REFRIGERATED TABLE TOP CENTRIFUGE	<p>MICROPROCESSOR CONTROLLED, FREELY PROGRAMMABLE with Energy efficient high resolutions TFT Display Screen (for centrifugation in angle rotors, swing-out rotors)</p> <p>Minimum rcf: 61,000 xg Max Capacity : 6x85 ml Angle Rotor Temperature: -20 to +40°C, CFC free refrigeration Single Knob operation (no complicated keypads) Maintenance Free, noiseless, brushless induction motor drive Pre-selection of run parameters in terms of rpm and ref Pre-selection of time up to 10 sec., 99 hrs. 59 min or continuous 20 curves of acceleration and deceleration 10 freely programmable Accel/Decl. Curves with graphic display Storing of up to 60 run protocols Free Programming of All Parameters Self-diagnostic error messages &c Alarms Display for end of Rotor life Magnetic rotor identification &c imbalance sensor Motorized lid lock and inter lock Facility for automatic lid opening after the run Operates on 230V/50 Hz</p> <p>Accessories: Angle Rotor 24 x 2.2/1.5 ml, max. 26,000 rpm ; rcf: 61,990 x g</p>

		<p>Angle rotor 6 x 50 ml. incl. cover, max. rpm 21,000, ref. 41,420x g Adapter for 1 culture tube 15 ml no. 15115 (1 set = 2 pcs.) Swing-out rotor 16 x 15 ml incl. Carriers, tubes and rubber cushions. With 15 ml Adapter.</p>
6.	Digital micropipette set	<p>Volume Range:</p> <ol style="list-style-type: none"> 1) 30 to 300 uL Digt ultichannel Pipette (8 Channel) - qty 01 2) 0.1 — 2.5 uL- Variable single channel qty-01 3) 10 — 100 uL Variable single channel qty-01 Specifications: <ol style="list-style-type: none"> A. Autoclavable lower part B. Chemical resistant material C. 3 years guarantee D. Two button operation E. 4 digit display F. Variable Operating Mode G. Accepts all Brands of Universal Tips
<p><i>II. Animal Production Division under DBT Twinning Project "Establishment of facilities for Research and Training in Stem Cell Technology in Pigs"</i></p>		
7.	Advanced Trinocular Inverted Phase Contrast Microscope with Built in Camera Port and Digital Photography System	<ul style="list-style-type: none"> • Sturdy stand with built-in halogen light illumination. • 5x nosepiece to accommodate five different objectives. • Large Specimen stage to accommodate different samples viz., large tissue culture bottles, petri dishes and culture flasks. • Built-in documentation port for attaching digital Camera/ CCD Camera systems to ensure/ space saving design and easy access to the work area of the stage. • Universal mounting frame suitable for holding specimen slide and petri dishes of dia. 35-60mm should be available as an option. • Conversion filter for photomicrography and green filter for phase contrast. • Objectives suitable for phase contrast and bright field. • Objectives, A — Plan 5x / 0.12, 10x/0.25 Ph 1, LD "A-Plan" 20x/0.30 Ph 1 and 40x/0.50 Ph 2 with XY movement of Specimen Stage. • Universal Condenser for bright field and phase contrast. This Condenser shall have a comfortable working distance of 53mm to make the Microscope upgradable for IVI and Micromanipulation work. • The Microscope should have provision to up-grade to Fluorescence, DIC (preferably PlasDIC) and Micromanipulation and Image Analysis • DIC / PlasDIC and Fluorescence Attachment should be quoted optionally • Digital Photography system with software to download the images in Computer. • Biotherm stage

		<ul style="list-style-type: none"> • CCTV adaptor facility • Accessories: Micro manipulator assembly (optional)
8.	Embryo Freezer	<p>Small size table top easy to handle Dimensions of freezing cabinet</p> <p>Overall height (mm): 35 Width (mm): 210 Depth (mm): 120</p> <p>Freezing capacity-- Straws (0.25 ml) 20</p> <p>Temperature range Between +20°C and -196°C inclusive Cooling speed between SP1 and SP2 From 0.1 to 5°C/minute</p> <p>Electricity supply 220 V single phase Can be connected to a 12 Volt battery</p> <p>Electricity consumption: 150 Watts</p> <p>Alarms: 2 audible alarms available for SP1 and SP2</p> <p>Temperature sensor: Alumel chromi urn thermocouple</p> <p>Filling: AGIL stainless steel Dewar flask Polystyrene tipper</p> <p>Accessory: Thermal inductor (seeding bar)</p>

9.	<p>ETO Sterilizer machine.(Manual)</p> <p>Gas sterilizer (Ethylene oxide)</p> <p>With cartridge</p>	<p>Rectangular S.S. chamber. 12" x 12"x 24^{1/2}</p> <p>Thermostatically controlled heating element to ensure uniform heating of the chamber at 50 degree centigrade. This chamber is mounted on a 1/2" HP rotary vacuum pump and enclosed in M.S. cabinet. A temperature meter, compound guage, switches, pilot lamps and provided on the front panel- in addition to the four valves which can regular evacuation, feeding of gas, degassing and fresh air inlet.</p> <p>STANDARD FREOSTER (CARTRIDGE MODEL)</p> <p>b. CARTRIDGE DISPENSOR</p> <p>Made up of stainless steel, is a part of each sterilizer package and is required to puncture the cartridge to dispense the gas into the chamber.</p> <ul style="list-style-type: none"> • Warm Cycle at 50 degree C. to 55 degree C Built in Aeration facility provided <p>2 different sensors for temperature</p>
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