

## NOTICE INVITING TENDER

No. AHC – 107/ Tender/ 2011-12/1593

dated- 18<sup>th</sup> Oct, 2011

Sealed tenders/bids affixing court fee stamp of Rs.8.25 (Rupees eight and paisa twenty five) only are invited by the Deputy Director, Animal Health Centre AH & Vety Deptt., Khanapara, Guwahati-22 from the intended bidders to participate in the double bidding process for the procurement of laboratory equipments and utensils for the NERDDL, Khanapara, Guwahati-22 and will be received up to 7-11-2011 up to 14.00 hrs. IST and will be opened at 14.30 hrs. IST on the same day.

The bid documents will be available in the office of the undersigned from 19<sup>th</sup> Oct/11 during office hours on cash/ draft payment of Rs. 200/-. The bid document is also available in the web site of Govt. of Assam ([www.assamgovt.nic.in](http://www.assamgovt.nic.in)). Item wise work order will be awarded to successful bidders on receipt of fund.



Deputy Director,  
Animal Health Centre  
A. .H. & Veterinary Department, Assam  
Khanapara, Guwahati – 22



GOVERNMENT OF ASSAM

**ANIMAL HUSBANDRY AND VETERINARY DEPARTMENT  
ASSAM, GUWAHATI (INDIA)**

**PROCUREMENT OF LABORATORY EQUIPMENTS  
By Double Bid System**

**NORTH EASTERN REGIONAL DISEASE DIAGNOSTIC LABORATORY  
KHANAPARA, GUWAHATI-781022**

**Issued to M/S : .....**

**Vide Letter No. : .....**

**INVITATION FOR QUOTATIONS FOR SUPPLY OF  
GOODS UNDER NATIONAL SHOPPING PROCEDURES**

To

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Dear Sirs,

Sub. :            INVITATION OF QUOTATION FOR SUPPLY OF LABORATORY EQUIPMENTS FOR  
                      NERDDL,GUWAHATI

1. The NERDDL intends to procure the listed laboratory equipments etc. for which this invitation for quotations is issued.
2. The purchaser is the Deputy Director of Animal Health Centre, A.H. & Veterinary Department, Khanapara, Guwahati-781022, Assam herein after called "the purchaser".
3. The Technical Specifications, Terms & Conditions and other details mentioned in this document shall herein after be referred as the "bidding documents".
4. The firm or the manufacturer or the dealer who is a prospective participant to this NIQ shall herein after be referred the "bidder."
5. Unless otherwise stipulated the word "quotation" and "bid" shall have the same meaning.
6. Unless otherwise stipulated the word "quotationer" and "bidder" shall the same meaning.

**Bid Validity:**

7. The Bid submitted by the bidder shall be valid for a period of one year (365 days) from the specified date of opening of bid. Bids not conforming to this provision may be treated as non-responsive and rejected.

**Bid Security (Earnest Money):**

8. The Bidder shall enclose a bid security amounting to 2% of the contract price in the form of a duly pledged NSC /Fixed deposit/ KVP in favour of Dy. Director, Animal Health Centre, A. H. & Veterinary Department, Khanapara, Guwahati. The purchaser shall be rejecting the Bids that not accompanied by the aforesaid bid security. The bid security of the unsuccessful bidders will be released immediately after signing of the contract with the successful bidder and the bid security of the successful bidder will be released upon submission of the performance security.

**Delivery Period:**

9. Delivery of the goods shall have to be completed strictly within 45 (forty five) days from the date of receipt of supply order. Penalty @ Rs.0.005% per day upon the value of the supply order will be imposed in case of failure to deliver the items and will be calculated from the last date of delivery time. Quotations not conforming to this provision may be rejected at the discretion of the purchaser.

**Place of Delivery (installation, if applicable):**

10. All the goods shall be delivered (duly installed & commissioned, if applicable) to the consignees at the NERDDL, Khanapara, Guwahati.

**Bid Price (Quoted Price):**

11. To facilitate prompt evaluation, the bidder shall quote price strictly as per the "Format of price schedule" enclosed for specific schedule failing which the bid may be treated as non-responsive, at the discretion of the purchaser.
12. There should not be any overwriting. Correction(s) if any shall be made by crossing out, initialing, dating and re-writing.

13. Bidders shall quote rates item Schedule wise and total bid price must be quoted excluding taxes. Quotations from Bidders quoting rates in lots may be rejected at the discretion of the purchaser.
14. All duties and other levies paid or payable by the bidder under the contract shall be included in the total Bid price. The mandatory Assam Govt. sale Tax/VAT payable shall be indicated separately for each item. These will, however, not be considered for the purpose of evaluation of the bids.
15. The prices payable to the supplier, except taxes, duties and levies, as will be stated in the contract shall be fixed & firm and not subject to adjustment/variation during the performance of the contract.
16. The price quoted by the bidder shall include transportation and incidental charges for delivery at final destinations as mentioned at para-11.
17. Wherever the laws and regulations require deduction of taxes at the source of payment of purchaser shall effect such deduction from the payment due to the supplier, the remittance of amounts so deducted and issuance certificate for such deductions shall be made by the purchaser as per the laws and regulations in force.
18. The price may be quoted including the charge of Annual Maintenance Cost (AMC) of the equipment for 3 (three) years beyond warranty/guaranty period.
19. The prices should be quoted in Indian Rupees only.

#### **Warranty:**

20. The warranty of the items shall be as per the prevailing warranty/guaranty policy/certificate of the manufacture for the items. The bidder shall furnish the warranty certificate for the items at the time of delivery. The warranty certificate shall be duly signed and sealed and the warranty period shall not be less than one (1) year from the date of delivery of the items at the consignee office. The provisions of warranty/guaranty have to be mentioned in the bid that will be criteria for evaluation of the bid.
21. If the supplier having been notified and fails to replace the defected goods within 7(seven) days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.
22. Objection/reservation to the Para 23 to 24 may lead to rejection of bids at the discretion of the purchaser.

#### **Inspection & Test of the goods:**

23. The purchaser or his nominated technical expert/consultant will test the sample/goods before final acceptance.
24. On receipt of goods, the checking committee's acceptance report is final for acceptance and subsequent payment against the supply.
25. The rejected goods (by the checking committee) will have to be taken back by the supplier within 7 (seven) days of notice and replacement must be made within 15 (fifteen) days after receipt of the notice.

#### **Opening and evaluation:**

26. The quotations will be opened at 2.30 p.m. on 7-11-2011 in the office of the Deputy Director, Animal Health Centre, A. H. & Veterinary Department, Assam, Khanapara, Guwahati -22. The bidder or his authorized representative may attend the bid opening.
27. In the event of the specified date for the submission of bids being declared a holiday for the purchaser, the bids will be received up to the appointed time on the next working day and will be opened at the appointed time and location on the same day.
28. The bids will be received and only the technical bids will be opened, signed by he members of bid opening committee and the available bidders/ representatives.
29. The technically qualified bid after scrutiny and evaluation by the technical committee will be selected for opening of corresponding price bids. The technically qualified bidders will be invited to be present in the opening of the price bids

30. The purchaser will evaluate and compare the Bids determined to be substantially responsive i.e., which are:
  - a. Duly signed.
  - b. Conform to all the terms and conditions and specification stipulated in the bidding document.
  - c. Are enclosed by all the required brochures/ leaflets/documents, and
  - d. Satisfy the Qualification Criteria.
31. The purchaser at his discretion may call for any clarification(s)/documents from any or all the bidders during the process of evaluation of Bids.

#### **Award of Contract:**

32. The purchaser will award the contract prior to expiration of the bid validity period. For further extension of notice shall be served to the bidder and if agreed the extension to be obtained from the concerned bidder.
33. The purchaser is not bound to accept the lowest rates quoted.
- 34. The quality based selection like proper specification; the technical committee's recommendation will be the basis of final selection of the bids by the evaluation committee, where the price will not be the factor for evaluation.**
35. Where only one bid is received, efforts should be made to ascertain the reasons. If it is determined that publicity was not adequate, bid specifications or any of the terms was restrictive or unclear, the bid should be cancelled and invited afresh after amending the specifications/ terms. If, however, it is determined that bid specifications are not restrictive and the process quoted are reasonable and bid is technically and commercially responsive, the single bid shall be considered for award.

#### **Performance Security & Contract Agreement:**

36. Within 10 (ten) days after receipt of the notification of award by the supplier, the supplier shall furnish Performance Security for due performance of the contract including provision of warranty for the items in the form of a KVP/NSC/Fixed deposit in a reputed Nationalized Commercial Bank for an amount equivalent to 5% of the contract value and which shall be valid for 2 (two) months beyond warranty/guaranty period from the date of supply of the supplied items. Upon submission of the performance security, the successful bidder/quotationer shall also sign an agreement with the purchaser for the due performance of the contract as per the format enclosed herewith. If the successful bidder, upon receipt of Notification of Award fails to furnish the Performance Security within the stipulated time, the Notification of Award issued shall be withdrawn and cancelled.

#### **Payment:**

37. All payments shall be made in INDIAN RUPEES only.
38. Wherever the laws and regulations require deduction of taxes at the source of payment, the purchaser shall effect such deduction from the payment due to the supplier, the remittance of amounts so deducted by the purchaser as per the laws and regulations in force shall make issuance certificate for such deductions.

#### **Qualification Criteria:**

39. The Bidder should enclose the following with their Bid:
  - a. The bidder must be manufacturer/authorized agent/dealer of a reputed manufacturer of the goods.  
Attested copies of authorized dealership/agent certificate if any. In case of manufacturer the following to be submitted:
    - (i) Copy of the license of manufacturing from the proper authority.
    - (ii) Certificate of quality control.
  - b. ISI or equivalent certificate to be provided wherever applicable.
  - c. Attested copies of up-to-date ST & IT clearance.

**Other:**

40. The Purchaser reserves the right to accept or reject any quotation/bid and to cancel the instant bidding process and reject all bids/quotations at any time prior to award of contract without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the purchaser's action.
41. **Each bidder shall submit separate quotation against each item.**
42. Item wise work order will be awarded to successful bidders and items will be procured in a phased manner according to requirement of the NERDDL.
43. The decision of the Dy. Director, Animal Health Centre, A. H. & Veterinary Department, Khanapara, Guwahati-22 Assam shall be final in case of any dispute.
44. The NIQ No. should be indicated in bold letters on the top of the sealed envelope and in both the technical bid and price bids.
45. **The prescribed bid forms to be duly filled in against each item in prescribed format of technical bid and to be sealed in a cover mentioning the item No.**
46. **The price bid format will have to be duly filled in against each item and to be sealed in a separate cover.**
47. **Both technical and price bids should be sealed separately and to be enclosed in a common cover indicating recipients address and of the bid item No.**



Deputy Director  
Animal Health Centre  
A. H. & Veterinary Department  
Khanapara, Guwahati-22  
Assam

Mail: [nerddlguwahati@gmail.com](mailto:nerddlguwahati@gmail.com)

Description of Laboratory equipments and appliances with technical specifications

Sl No	Item	Specifications
1	Air Curtain	Horizontal type, approximately 1 meter in length to be fitted above door by ceiling or wall mounts. Cabinet and blower housing made of Powder coated CRC steel sheet. Nuts and bolts should be nickel coated. Centrifugal fans, motors should have thermal overload protection. Noise level should be minimal. The supplier will be responsible for installing, testing and commissioning of the air curtain.
2	Anaerobic Work Station	Glove Free Operation, automatically sealed, locked and programmed doors to prevent loss of anaerobiosis, having facility for quick passing of small nos of Petri dishes into the incubator with a minimal gas usage. Automatic controls without use of footswitches or pushbuttons for routine operation. The Control Panel having indicators for the workstation's operating status and audible alarm to register gas leaks, low gas pressure and mains failure. All parts inside the incubator should have easy access. Anaerobic Indication facility, Adjustable electronic temperature controller with internal digital thermometer with display. Humidity controller fittings with facility to collect condensations in removable bottle. The workstation should have facility to be fitted with at least two sliding shelves. The visibility must be clear having no folds in the front panel and having good lighting. The workstation should have safety device to protect the operator against electric shock. Maximum Incubation Capacity 800 Petri Dishes Gas Supply 1) Mixed Gas 10% H <sub>2</sub> + 10% CO <sub>2</sub> +80% N <sub>2</sub> (Flushing and incubation) 2) N <sub>2</sub> (Flushing only) Temperature Range Ambient + 4C to 42C Temperature Stability +/- 0.5C @ 37C The work station incubator should also include 2 Gauntlets with 'O' rings 3 Wrist cuffs with 'O' rings 6 Petri dish carriers 1 Condensation drain bottle 1 Pressure relief water bottle 1 O <sub>2</sub> indicator pump
3	Camera Lucida	Mirror type, to trace image of a microscopic object on a paper equipped with beam splitter prism of optical glass. Capable to be fitted in a microscope.
4	Chromatographic cabinet	U.V. Chromatography Inspection Cabinet for viewing & detecting prepared substance on T.L.C. plates and a number of other laboratory & investigation work. This cabinet should be fitted with two U.V. tubes of different wave lengths & a florescence tube for visible light with an eye protective glass window on the top front for viewing the samples.
5	Cyclo Mixer	Handy with small foot print, Heavy duty AC motor, The body material should be non-reactive to chemicals. A variable speed with speed regulator for controlling the degree of vibration. Equipped with touch feature for operating the unit when tube is pressed on the rubber cup. Interchangeable adaptors for different applications and Usable for tube, bottles or flasks upto maximum capacity of 250 ml

6	Cyclone grinder	For the processing of foods and feeds for subsequent NIR analysis. The rotor and grinding chamber should generate air jet to carry the ground sample into the sample bottle. Facility for prevention of material heating for preservation of the moisture content. Equipped with sieves for distribution of optimum particle size negating recalibration of the NIR spectrometer. The adjustable rotor speed. Cleaning must be quick and easy through use of air jet effects. Cyclone separator with approx 250 ml collecting bottle. Convenient operating panel. Light weight one piece construction
7	Drinking water purifier system	Wall mount, fitted with RO, UV and TDS control, production capacity at least 10 litres/hr, fitted with storage tank of at least 5 lit capacity, protection for no water supply. Suitable for production of pure water for drinking purpose only
8	Egg candler	The compact hand unit with 8-foot cord is similar to the COOL-LITE-TESTER, but without the automatic on –off feature. Recommended for general use, 6 watt bulb for low operating temperatures. 230 Volt,AC with plug on power cord.
9	Egg Incubator	Small size egg incubator for lab use only (maximum capacity for 400 eggs). Totally controlled and monitored incubation system. Control panel provided on front for quick accessibility Digital display of temperature Turner indicator, Indicator for primary and secondary heater, for water and air-cool system, Heater safety cut off. Highly durable Cabinet construction made of fibre hot pressed panel with insulation, rust proof bolts and nuts, Independent electrical turning systems for setter compartments, equipped with Fan motor, Turning motor, Thermometers & Hygrometers, Automatic Turning System, Humidistat, Exhaust Ventilation, Setting Trays Automatic cooling system.
10	Automatic Fibre extraction system {Fibtec}	Comprising: Filtration Module, Incubation Flasks, Standard Crucibles, Basket for Incubation Flasks, Stands for Crucibles, Spray bottles, Water aspiration pumps, Filter aid, Tubing, Shaking Water Bath Ceramic, infrared heater, borosilicate extraction vessel, Individual high temperature resistant adapters for intact leak proof seal, Independent sample loading with individual mechanical controls, Facility of direct reagent addition, electrically operated air pump for declogging, individual control valves for vaccum, reverse air stream & reagent addition, Microprocessor based digital Temperature controller, Temperature range :ambient to 450 °C, auto over temperature protection, auto sensor break protection, auto error indication etc.
11	Filtration set	Complete filtration set for efficient and Sterile filtration up to Volumes Up To 2 L of chemical, fluids containing dilute proteins, preservatives and biological fluids. Provision of vent to prevent vapour lock. Preferably equipped with prefilter for extending filter life. Filter made of hydrophilic polyethersulfone membrane or equivalent, Pore Size 0.8/0.2 µm. Assembly unit should withstand autoclave cycle at 125°C for 60 minutes
12	Fully Automatic Soxhlet Solvent Extraction Unit (PC Compatible)	Fully automated, unattended operation using four-step solvent extraction technique viz boiling, rinsing and solvent recovery and lifting the sample cup off the hot plate. Automatic shut down facility. Should posses application flexibility allowing users to design and optimise their own applications for

		accurate, safe determination of soluble matter within the food, feed etc. Should have provision for adding the solvent in closed secured system. Automatic solvent recovery and built-in fume hood limit solvent vapour to a minimum. Dual temperature sensors. 6 Sample positions, upto 80% automatic Solvent recovery with provision for Closed solvent addition, Extraction cups made of Glass & Aluminium , Thimbles Glass Cellulose, Temperature range 0 – 285°C , Overtemperature protection
13	Re-circulating Fume hood	Semi closed ventilated enclosures for capturing fumes released during an experiment by drawing fresh air from the environment. Corrosion resistant steel sheets make having epoxy coating from inside. The work table is made of heavy gauge construction material fortified with acid proof glazed tiles/ stainless steel. The work area should have a small sink made of stainless steel. It should ensure sufficient air velocity (80 feet or beter per minute with an accuracy of + 10 feet/minute). Noise level 60 db (max). Well lit work space. The exhaust system must dynamically balanced centrifugal impellers which are coupled with a heavy duty three phase motor. Dimension (Length x Depth x Height) 4'x 2' x 2'
14	High speed centrifuge	High speed table top refrigerated centrifuge with variable speed range from 3000 rpm to 23,000 rpm or better , Max. RCF 50,000 x g or higher , Max. capacity : 4x180 ml Temperature range : -15 deg C to + 40 deg C or better , Drive : Robust frequency controlled induction drive with maximum imbalance stability. Electronic imbalance recognition, optimally suited to every rotor to detect imbalance even occuring during the run . Minimum 5 acceleration and 5 braking profiles. Acceleration & Braking time : Very fast , acceleration to 50,000 x g in 30 secs. Display : Digital display for speed , time , temp., RCF, acc/dec profile. Noise level : Less than 60 dB. Accessories to be included : <ol style="list-style-type: none"> <li>1) 16 x 16ml rotor with RCF 31000 x g or higher</li> <li>2) 16 x 6.5 ml rotor with RCF 31000 x g or higher</li> <li>3) 16 x 3.5 ml rotor with RCF 31000 x g or higher</li> <li>4) 24 x 1.5 ml Fixed Angle rotor with speed 22,500 rpm or higher</li> <li>5) 24 x 0.2 ml Fixed Angle rotor with speed 22,500 rpm or higher</li> <li>6) Microtitre plate rotor with speed 3,000 rpm at 4°C.</li> </ol>
15	Kjeldhal Automatic Macro Digestion Unit (PC Compatible)	Fully-automatic compact distillation unit with integrated titration and data management, easy-to-read control panel, integrated keyboard and color display. High-performance steam generator, with regulated steam output, protective door, sample tube detector, cooling water flow sensor, drip tray, system for automatic emptying of sample tube and receiving vessel and environmental safety. Transparent structure shields of the distillation process, easy accessibility to all working parts. The system will be used for Kjeldahl estimation of nitrogen, protein, ammonia and other steam volatile compounds. Multiple sample processing capacity, indicator system and safety alarm. Fume exhaust unit: Specially designed to absorb and neutralize vapours generated in the Kjedaahl digestion

		processes. System composed of a “Scrubber unit” that blocks the passage and neutralizes the condensed acids, and a re-circulating water pump that produces sufficient vacuum to aspirate the vapours.
16	LCD Projector with wall screen fittings	For displaying video, images or computer data on a screen or other flat surface. Lumen should not be less than 2400. Compact size and should include 1 KVA UPS. The supplier will also have to fit the projector as ceiling hanging projector with use of ceiling mount kit within the NERDDL conference room with suitable connectors/cords/ interfaces fitted on conference table of NERDDL along with supply and fitting of roller spring type of screen to be fitted on wall with suitable and easy electrical switch type operation and control.
17	LN2 container with canister	Lightweight aluminium container with compound materials in the neck range, insulation foil in the vacuum space, Low evaporation rate (static evaporation not exceeding 0.1lit/day), have 6 Canisters made of plastic or stainless steel capable of storing at least 150 vials of 2ml capacity. Container make must comply with international regulations applicable to the transport of hazardous goods. Container should be inclusive of Transport handle, Vacuum valve, Loose lid plug and canister Liquid Nitrogen capacity range 10-25 lit.
18	Water analysis system – Lovibond/eq	For testing Waste Water, Drinking Water, Industrial process Water and other Scientific Applications in Laboratories. A microprocessor-controlled water proof photometer with keypad and graphic display. Equipped with a wide range of pre-programmed methods with facility for storing users own methods. Operable in A/C or with rechargeable batteries. The instrument is to include complete and ready-to-use accessories like rechargeable batteries, mains-charger, vials, adapter, various size syringes, beaker, stirring rod, Cleaning brush, Rubber seal cap, Connection cable for PC etc.
19	Magnetic Stirrer	Microprocessor-controlled feedback technology maintaining consistent, repeatable temperature settings from 5°C up to maximum, Digital display, Flat top and high-wattage heating elements, Rugged cast aluminium body, smooth low-speed stirring, consistent speed control and stronger magnetic coupling, able to bring stir bar to immediate stop for quick flash removal, Integrated ring stand holder. Heating Surface Area: 18.4 x 18.4cm, Maximum Volume: 4 Litres Load Capacity : 11.3kg Electrical Requirements: 220/240V 50/60Hz Temperature Range: 5°C to above 100 °C, Stirring Range: 60 to 1200 RPM
20	Mc Intosh Jar inclusive Gas Packs	Anaerobic Culture Jar (Mcintosh and Fildes Pattern), Approx size 23cm. High X 13cm. Dia., metal cover fitted with two needle valves for evacuating and filling and a sachet for holding the catalyst. The jar must be usable both with cylinder as well as with Gas packs. Complete with petri dish holder and pressure gauge
21	Microwave Digestor	Microwave Digestion for sample preparation for trace metal analyses required for Atomic Absorption Spectroscopy (AAS), Atomic Fluorescence Spectroscopy (AFS), ICP-AES, and ICP-MS digestions. The instrument should allow top-loading. Closed

		<p>vessel microwave digestion system with high-pressure capabilities to enhance digestion quality and less digestion time. Capable of simultaneously running up multiple high-pressure closed vessels. System should have built-in control and graphic display for all routine operations. Ensure homogeneous distribution of microwave radiation. System must be compatible to withstand exposure to corrosive chemicals and spills. System should have facility to clean cavity in case of spillage. System should be capable of processing multiple reaction vessels simultaneously. Should have provision for magnetic stirrer in each vessel position. Should have single, integrated immersion sensor for both Pressure and Temperature. Reaction vessel must have reliable metal safety disks for overpressure protection. Should include safety features like safe release of overpressure, protection shields around the reaction vessels, impact resistance door with electrical and mechanical interlocks, inbuilt exhaust systems to cool the vessels. Suitable accessories should be offered in main as well as in option as extra.</p>
22	Laboratory Microwave Oven and Accessories	<p>The Laboratory Microwave Oven will be used for performing some of the steps in sample preparation and other related laboratory works like fixation, staining, dehydration, decalcification, impregnation, polymerization, immunohisto and cytochemistry etc.</p> <p>It should include Features like: Stainless steel resistant to all staining solutions and solvents easy to clean oven chamber with thermal insulating non microwave absorbing and chemical resistant (e.g. ceramic) floor. Built in inside chamber reflector for even distribution of the microwaves. User programmable and smart interface displays (Integrated on-board digital controller), automated controls Integrated on board digital controller. Bubble Manifold for tubes. Forced exhaust system, safety interlocks. Adjustable duty cycle one second and greater. Pre-warming facilities. Different modes of operation (Dual Mode, Extended Timer, Count up and Count down Timing). Visual and Aural Warnings on errors and malfunctions. User-friendly touch keypad to set and store all parameters, programmable. Multiple running modes. Temperature and power control, pulsing the microwave effects. Adjustable temperature probe with the sensor located at the tip of the probe. Bubble Mixing from for multiple Tubes.</p> <p>The microwave should be supplied with Integrated Vacuum pump, Remote Temperature Probe, Stirrer Antenna, Microwave Cookbook; Microwave Tool book Load Cooler with Recirculator and heat exchange, Vacuum Processor with Processing Vessel, Cassette Rack.</p> <p>Effect Range: 0-100%  Temperature Range: 0-120°C  Temperature Accuracy: Timer error: &lt;0.1%  Temperature Readout Accuracy: &lt;0.5°C  Internal Lighting: Chamber Lighting via keyboard switch  Size (table top) Approximately <math>\simeq</math> 48cm x 54cm x 62cm)</p>
23	Milk Analyser	<p>Self contained and designed to incubate two snap devices at a time, pre- set incubation temperature of 40 -50 degree Celsius. Must accommodate the devices for all antibiotic tests viz. Beta</p>

		lactum, aflatoxin, tetracycline, gentamicin & sulfamethazine analysis in raw milk.
24	Automatic floor scrubbing machine	This mechanized floor cleaning system must be easy to use, light weight for operation; compact enough to go below small areas. It should have <i>disc brush, scrubbing path, having at least 10 lit capacity solution tank and a recovery tank, have at least 8 meter long power cord, should include squeegee set and should have powerful scrubbing action ideal for the quickest scrubbing of hard floors. Should have fold-down handle, easy to transport and storage</i>
25	Mass Spectrometry	Compatible with Egilent make HPLC. Work station Comprises PC, monitor, printer, latest Windows software, Office 2007, MS software and Manuals. <ul style="list-style-type: none"> <li>• Electric recording of mass spectra covering 1.2 mass decades by simultaneous multi channel scanning</li> <li>• Fast scan speed achieving up to 30 spectra per sec for full scan</li> <li>• Accurate mass measurements better than 5 ppm at dynamic working resolution</li> <li>• Outstanding long term stability of external calibration and use of one lock mass for full mass range</li> <li>• Recirculating chiller: air-cooled, non-CFC water chiller with temperature control.</li> </ul> Environmental Conditions Room temperature: 18-35°C, Relative Humidity: <80% non-condensing Electrical Requirements – 220-240V ± 10%, 50/60 Hz – 30-32A line protection (slow-blow fuse)
26	Bench top Muffle furnace	Drop-down door that is also a convenient shelf for loading and unloading. Door safety switch for cutting off power to the heating elements when door is opened. Sensor break protection should remove power to heating elements, eliminating runaway conditions. Press button to display chamber temperature or set point temperature. Chamber Dim. 3.8”H x 4”W x 5”D. or equivalent Overall Dim. 14”H x 9”W x 13”D. or equivalent Double –walled casing for low external temperatures and high stability. Powder coated Mild Steel. Ceramic Wool Insulation. Air tolerant Heating elements. Control panel digitally controlled with indicator. <ul style="list-style-type: none"> <li>○ Maximum Temp : 1200 °C</li> <li>○ Working Temp : 1100 °C</li> <li>○ Temp uniformity : ± 0.2 °C</li> <li>○ Temp stability : ± 0.1 °C</li> <li>○ Power : 230 V, 50 Hz, AC Mains, Single phase.</li> </ul> <u>Accessories should include:</u> Muffle Furnace Crucible Tong: Nickel-plated steel. Long and rigid for furnace use. With large handle and serrated tips. Temp resistant Porcelain Crucible: Low form with lid. Wide form crucible & lids.
27	Networking , software and server	Linux based server complete with one set of CPU, printer, power packs, key board, mouse, monitor etc. with integrated software and allied connection for networking 16 computers within the NERDDL (LAN) and provision of connectivity to the internet

28	NIR Instant analyser	<i>For analytical use in</i> Meat & Meat Products, dairy products, Grains etc. the instrument should have a Measuring Range 0-100% with a Spectra 600 – 2500 nM or equivalent. Measuring Technique Reflection and Transmission, instant response Time having Accuracy +/-0.1% and Precision to 0.001% nominal. Explosion Proof, LED display, user friendly operations
29	Ocular micrometer	Disc type 50- 100 divisions Stage micrometer-0.01 mm
30	Pass Box	Maintenance-free Mechanical interlock preventing both doors from being opened at the same time. The main body of the pass box is stainless steel, the internal side walls of the pass box must be made from a single piece of stainless steel, with covered corners facilitating easy cleaning. Components should have chemical resistance capacity. Transparent glass doors enabling easy visibility into the interior. Frameless construction with no joints. Internal works area 610X610X610 mm and external dimension 750 x 650 x 750 mm
31	Photo Documentation & Visualization with UV Illumination Cabinet	Dual wavelength 254 + 366 nm UV Cabinet with a digital camera (min 12 mega px).
32	Sonicator	Programmable operation and a digital display of operating parameters meant for applications like nanoparticle dispersion, creating emulsions, cell lysis and homogenization having variety of probes and accessories to handle any application. Light-weight and portable and features a universal applicator cable to make changing applicators quick and easy. Should meet all international safety standards, have features like self-tuning circuitry that automatically senses the correct transducer size, frequency, and characteristics. Having provision for prevention of heat buildup in temperature-sensitive samples. Having Overload Protection, adjustable pulse. Equipped with Power cable, Wrench Set, Converter Cable , Optional Lithium Ion Battery Pack, Timer Accuracy: ±10% of the indicated time, suitable Ultrasonic Generator, Continuous mode, Digital timer indicator.
33	Split AC 1 tonne	Cooling capacity 1 tonne, 5 star, wall mounted, rotary compressor, deodourising, anti fungus/ bacteria filters, remote control, anti-corrosion, air swing, auto restart, timer and anti-corrosion, removable and washable open panel, having sleep mode and auto shut flaps, complete with installation.
34	Split AC 1.5 tonne	Cooling capacity 1.5 tonne, 5 star, wall mounted, rotary compressor, deodourising, anti fungus/ bacteria filters, remote control, anti-corrosion, air swing, auto restart, timer and anti-corrosion, removable and washable open panel, having sleep mode and auto shut flaps, complete with installation.
35	Syringe destroyer	Compact portable syringe destroyer generating a high temperature capable of complete burning of the needle within seconds after insertion. Removable discharge tray for easy disposal of needle ash. Shock proof.
36	Tissue Grinder	Material grinding chamber and cover-stainless steel minimal having an Useful Volume -250 ml, speed range- 20,000rpm, Granularity of task- 5-7 mm, dust free operation, Overload protection having duty cycle ON/OFF-7min/10 min, Circumferential speed-72m/s

37	Tissue homogenizer (BSL compatible)	Volume range -0.5 -100 ml, Stepless Speed adjustment with Speed range -8000-30,000 rpm and digital Speed display, low level of Noise [without dispersing element-65-75 Db(A)], have overload protection with a Permissible ambient temp. 5-40°C and humidity 80%
38	80 KVA Servo control Voltage stabilizer	Three phase, Automatic control having fully automatic/ manual control panel with switch, having servo motor drive, cooling system by oil Input range 190-260 V, output 240V±1%, phase to phase speed of voltage correction 36 V/Sec. Supplier have to install the stabilizer with all accessories including oil.
39	UV illuminator	Should be able to present highly uniform excitation source for quantitative fluorescent imaging in a wide range of genomic and proteomic applications. High sensitivity and consistent across the illumination surface, Accurate gel to gel comparison, Compact size, illuminator to include Gel-Cutter, Focus Target and UV Blocking Cover. The Transilluminator preferably should provide the selection of 365nm, 302nm and 254nm in one compact unit
40	Vacuum pump	Dual-head pumps 78161-10 and -15 draw vacuum down to 29.68" Hg—order two service kits 78163-50 (one for each pump head) for routine maintenance. Two hose barb fittings and a 6-ft cord; U.S. grounded plug on 115 VAC models, European plug on 230 VAC models. Max vacuum : 29.68" Hg Max pressure : 15 psi Free-air capacity : 0.71 cfm (20 L/min) Motor type : TEFC Duty cycle : continuous Max temperature : 105°F (40°C) Wetted parts : Aluminum, neoprene
41	Video camera	Minimum 14 mega pixel resolution, clear photo LCD, anti blur solution, face detection, 18/55 X optical zoom, HD output, lithium ion battery, 4 GB memory, extra lithium battery, VR kit, Cover
42	Water purification system	The purification system should allow for wall or bench mounting without the need for accessory equipment. Display and controls should be remote mountable. Should be able to dispense in different modes as full flow, intermittent flow and volumetric dispensing and allow for delivery to laboratory containers such as cylinders and flasks without the need to hold them. The internal primary consumable purification cartridge limited to a single pack with a minimum removal capacity of 1160 grains. Cartridge pack tubes should be of non-pigmented polypropylene and filled with semi-conductor grade mixed bed ion exchange resin as well as acid washed carbon. Includes an internal pressure-regulating valve and a built-in delivery pump for optimum delivery of ultra pure water. Cleaning procedure should be accomplished without removing the deionization cartridges. Have facility for prevention of deterioration of water quality through recirculation. Provision of tank for feed water supply. The final Ultra Pure Grade Product water must be ideal for molecular biology applications including; PCR, electrophoresis, as well as cell and tissue culture Performance requirements. Iron Removal Filter: The system should be fitted and connected

		<p>with back washable Iron removal filter to deliver 0.1 ppm out put. A continuous demineralized system should be attached with it having pretreatment cartridge with anti-scaling compound, silver impregnated activated carbon and 3micron and 1 micron filter. High flux thin film RO membrane with 100Dalton cutoff and free chlorine level of 3 ppm. System should have Electro Deionization cartridges with carbon beads at cathode for maintain PH.</p> <p>The final ultra pure water purification system connected with the tank having purification pack containing mixed bed ion exchange resin/ microfilter / activated carbon. Application Specific cartridges to remove ionic and organic contaminants to trace levels.</p> <p>Final product water should have resistivity of 18.2 Meg ohm .cm, TOC&lt; 10ppb, Bacteria &lt;1 cfu/ml, Flow rate 1 Lt/min</p>
43	Automatic transfer switch	<p>A switchgear to be used for a 160 KVA backup generator installation permitting soft loading, allowing load to be smoothly transferred from the mains to the synchronized generators, and back. The switch should prevent backfeeding from the generator back into the main line. Power interruption time should not exceed split of a second. Parameters determining synchronization are: voltage difference less than 5%, frequency difference less than 0.2 Hz to be controlled by an isochronous governor.</p>

MANUFACTURERS' AUTHORIZATION FORM\*

No. .... dated .....

To

.....  
.....  
.....

Dear Sir,

IFB No. : .....

We ..... who are established and reputable manufacturers of *(name and description of goods offered)* having factories at ..... *(address of factory)* do hereby authorize M/s ..... *(Name and address of Agent)* to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB.

No company or firm or individual other than M/s ..... are authorized to bid, and conclude the contract for the above goods manufactured by us, against this specific IFB. *(This para should be deleted in simple items where manufacturers sell the product through different stockists.)*

We hereby extend our full guarantee and warranty as per Clause 20 for the goods and services offered for supply by the above firm against this IFB.

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

\* Modify this format suitably in case where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited.

BID FORM  
(Letter Head of the bidder submitting quotation)

NIQ No..... Date.....  
Item No

To,  
The Deputy Director,  
Animal Health Centre  
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Sir,  
Having examined the bidding documents issued vide NIQ No ..... date ..... including Addenda Nos. (insert numbers, if any), the receipt of which is hereby duly acknowledge, we the undersigned offer to supply (deliver, installation & commissioning – retain as applicable) .....(name of items) specified therein in conformity with the said bidding documents for the sum or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted to deliver the items in accordance with the delivery schedule specified.

If our Bid is accepted, we will obtain the performance bank guarantee from a reputed Nationalized Commercial Bank within 10 (ten) days of receipt of the notification of award in a sum equivalent to 5% (Five percent) of the contract price for the due performance of the contract.

We agree to abide by this Bid for a period of ..... days from the date fixed for Bid opening as per the NIQ, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

We further agree to abide by all the terms and conditions of the bid documents.

Until a formal contract is prepared and executed, this Bid together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force as per the "Prevention of Corruption Act 1988".

We understand that you are not bound to accept the lowest or any bid you may receive.  
Dated this ..... day of ..... 2011

.....  
.....  
(Signature) (Name)  
(In the capacity of)  
Duly authorized to sign Bid for and on behalf of.

# Contract Form

(On Non Judicial stamp of adequate amount)

THIS AGREEMENT made the ..... day of ..... between ..... (Name of purchaser) of ..... (address of purchaser) (hereinafter called "the purchaser") of the one part and ..... (Name of Supplier) of ..... (Address of supplier) (hereinafter called "the supplier") of the other part.

WHEREAS the purchaser invited bids for certain goods and ancillary services, viz ..... (brief description of items and the AMC) and has accepted a bid by the supplier for the supply of those goods and services in the sum of ..... (contract price in words and figures) (hereinafter called "the contract price".)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement viz. :
  - a) The Bid Form, the technical specifications and price schedule submitted by the Bidder, together with all other documents submitted by the bidder in his bid or obtained subsequently by the purchaser before the date of award of contract.
  - b) The Name, Technical Specification, Terms and conditions and other details issued by the purchaser vide his No. .... dated ..... and
  - c) The purchaser's Notification of Award.
  - d) The bidder's acceptance letter against the purchaser's notification of award.
  - e) The performance security submitted by the bidder (Photocopy).
  - f) Any correspondence made between the purchaser and supplier regarding the procurement of the article
3. In consideration of the payments to be made by the purchaser to the supplier as hereinafter mentioned, the supplier hereby covenants with the purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the contract.
4. The purchaser hereby covenants to pay the supplier in consideration of the provision of the goods and services and the remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.
5. Brief Description of Items and Services :

Sl. No.	Description of Item to be supplied with Technical Specifications	Quantity to be Supplied	Unit Rate (Rs)	Contract price (Rs)	Tax/ VAT	Aggregate
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5 (3 X 4)</b>	<b>6</b>	<b>7 (5 + 6)</b>
Total						
Rupees (in words total of col. 5)						
Seal Signature of the bidder						

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Witness..... Signed, sealed, delivered by.....the.....(for the purchaser)

Signed, sealed, delivered by.....the.....(for the supplier)

### PRICE SCHEDULE

NIQ No

Item No

Sl No	Name of the item	Unit Cost (Rs)	Quantity (Nos)	Contract Price (Rs)	Tax/ VAT (Rs)	Aggregate (Rs)
1	2	3	4	5	6	7

Aggregate (Column 7) Rs In words

### TECHNICAL SPECIFICATION SCHEDULE

NIQ No

Item No

Sl No	Name of the item	Specifications	Remarks
1	2	3	4