

No. AHC – 107/ Tender/ 2010-11/783

dated- 4th August, 2010

NOTICE INVITING TENDER

Sealed tenders/bids affixing court fee stamp of Rs.8.25 (Rupees eight and paise 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 bidding process for the procurement of laboratory equipments and machineries for the NERDDL, Khanapara, Guwahati-22 and will be received up to 23-08-2010 up to 14.00 hrs. IST and the same 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 05-08-2010 during office hours on cash/ draft payment of Rs. 1000/-. The bid document is also available in the web site of Govt. of Assam. 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



सत्यमेव जयते

GOVERNMENT OF ASSAM

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

PROCUREMENT OF 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

Dear Sirs,

Sub. : INVITATION OF QUOTATION FOR SUPPLY OF GOODS FOR NERDDL, GUWAHATI

1. The NERDDL has received an amount towards the cost of the laboratory equipments and intends to procure the listed laboratory equipments 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/ KBP 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 above 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 02-09-2010 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 technical bid after scrutiny and evaluation by the technical committee. Only the 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 only one quotation against 1 (one) item.
42. Item wise work order will be awarded to successful bidders on receipt of fund 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 wise duly filled in prescribed format of technical bid to be sealed in a cover mentioning item No.**
- 46. The price bid format will have to be duly filled in against each item and to be sealed in a cover.**
- 47. Both technical and price bids 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

Name: Dr. J. N. Dewan
Address: Animal Health Centre
A. H. & Veterinary Department,
Khanapara, Guwahati-781022, Assam

Tel. No. 0361-2912455
Fax No. 0361-2330177

Description of Laboratory equipments with technical specifications

Item No.	NAME OF INSTRUMENT	Qty Reqd.	SPECIFICATIONS
1	PRECISION ROTATORY MICROTOME	1	A>O>Spencer type. CAMDRIVE SYSTEM setting from 1-27 microns in stepsof 1 micron. Specimen holding capacity up to 32- 27 mm block. 3 levers for adjustment. To be supplied with one knife of special alloy steel 120 mm long with back and handle in box, 3 block holders, one honing stone, one bottle of lubricant oil and dust cover.
2	MICROTOME KNIFE	1	A.O. Spencer type.Made of special alloy steel with handle in elegant plastic box. Size : 150 mm, 180 mm.
3	DISPOSABLE BLADE FOR MICROTOME	10 packs	Made of high quality stainless steel. Low and High profile, International design. 80 mm L, Cutting angle : 35o, pack of 50 pieces.
4	SLIDE WARMER	1	Ambient of 60 ⁰ C with temperature uniformity 50 ⁰ C ± 2 ⁰ C.
5	CENTRIFUGE	1	Bench top type centrifuge with tube capacity 12 x 15 ml head along with different capacity heads. 5000-10000 RPM with digital display for time and RPF. Lead lock.
6	REFRIGERATOR	1	Double door freeze of 250 lits capacity from reputed company.
7	DEEP FREEZE (- 20 ⁰ C)	1	
8	HOT AIR OVEN	1	Temperature range from 40 – 260 ⁰ C with temperature controlled accuracy system.
9	ELECTRONIC CRYOSTAT MACHINE	1	Programmable automatic fumigation and defrosting control of microtome outside of chamber cryobar temperature = - 60 ⁰ C. Chamber temperature = - 30 ⁰ C (upto - 35 ⁰ C) Accu- Feed system with 25000 Micron advance can be set 1-20micron in 1 micron 20-60 micron in 5 micron. Cryocaste 25/35/45 mm dia circular and 35 mm square section thickness range 1-20 micron. Specimen advance 25 mm cutting stroke 57 mm. Digital indicator for temperature.
10	BLOOD ANALYSER	1	Clinical; chemistry analyzer, Dual mode, Built in in Voltage stabilizer, Versatile software to calculate delta OD on screen, Built in thermal; printer, 20 coloum with 384 stationary head, real time clock.
11	DIFFERENTIAL AUTOMATED HAEMATOLOGY ANALYZER	1	Parameters- WBC, RBC,HGB, HCT, MCV, MCH, MCHC, PLT, Neutro %, Lympho %, Mono %, Eosino %, Baso%.
12	HAEMOGLOBIN METER (Hb)	1	For STD and Non – STD mode. Specification : Wave length filter : 540 ± 10 nm optical glass filter Min. vl. : 10 ml.

			<p>Display : 3½ digit LED</p> <p>Indicator : 5 nm LED indicator provide for different modes</p> <p>Lamp : 6 volt / 315 mA tungstant lamp</p> <p>Detector : High sensitive photo- Diode.</p> <p>Power supply : 230 volt + 10% Hz AC</p> <p>Batter : 12 volt (optical)</p> <p>Dimension : 12 x 11.2 x 6.25</p> <p>With dust cover, lead battery, lamp, fuse, cuvette (square)</p>
13	HAEMOCITOMETER / NEUBER'S COUNTING CHAMBER	5	Complete with WBC and RBC pipette in box.
14	GAS CHROMATOGRAPHY- MASS SPECTROMETER	1	<p>➤ GC-MS with ECD, NPD AND FID Detectors – Microprocessor controlled dual channel GC-MS with digital / electronic flow controller, self diagnostics and programmable pneumatic control facility. The system must have gas saving and leak check facility with pressure and temperature compensation mode and constant linear velocity mode. Oven temperature range – Amnient to 450 0 C or more, oven heating more than 1200 C.</p> <p>➤ Range – 7 or above.</p> <p>➤ Split injector for three detectors.</p> <p>➤ Auto samplers</p> <p>➤ Detectors – Flame ionizatuion detector (FID)</p> <p>Electronic capture detector (ECD)</p> <p>Nitrogen phosphorus detector (NPD)</p> <p>➤ Nitrogen, Air and Hydrogen Gas Generator(optional)– Microprocessor controlled on line purity monitoring capability, flow rate – 250 CC / min (Minimum purity – 99.99999%)</p> <p>➤ MS SYSTEM</p> <p>Mass range :</p> <ol style="list-style-type: none"> 1. Should be 10 to 900 amu with unit mass resolution. 2. Should have scan speed of 5,000 amu/sec or more 3. Should have Turbo Molecular Pump of capacity 250 L/sec or more 4. Should have Electron Ionisation, Chemical Ionisation (+/- mode) with Computer controlled CI reagent gas control. Must have a feature for carrying out positive CI & Negative CI in the same run. 5. Should have electron energy adjustable between 0 and 130 eV with emission current up to 850 µA 6. Should be GC interface temperature up to 350°C

		<p>7. Should be provided with variable damping gas option for enhanced sensitivity</p> <p>8. Should have Vacuum interlock for quick ion volume change i.e from EI to CI or vice versa and DIP operation.</p> <p>9. High EI, PCI, NCI sensitivity PCI sensitivity in full gas.</p> <p>10. <i>Suitable Data Station with Software , Computer</i></p> <p>11. NIST -08 libraries– 1 set</p> <p>12. MS Columns – 2 nos</p> <p><u>Prerequisites:</u></p> <p>1. HP Laser Printer</p> <p>2. Helium cylinders (47 litres capacity each) – N4 /N5 Grade - 01</p> <p>3. Helium regulator - 01</p> <p>4. Methane cylinders (10 litres capacity each) (For CI operation) –High pure - 01</p> <p>5. Methane regulator- 01</p> <p>6. Gas Distribution Panel with filters for gas purifications for the gases- 1 set</p> <p>13. UPS system – 5 KV on line UPS- 01</p>
15	SELECTIVE ELECTRODES FOR FLUORIDE, NITRATE	<p>1</p> <p><u>PH</u> Range : - 2.000 to 19.999</p> <p>Resolution : 0 to 14 in aqueous solutions/0.1 , 0.01 , 0.001</p> <p>Accuracy : +/- 0.002</p> <p>Calibration Points : 1 to 5 points</p> <p><u>mV</u> Range – mV/Rmv : +/- 1999.9</p> <p>Resolution : 0.1</p> <p>Relative Accuracy : +/- 0.2 mv or 0.05% , whichever is greater</p> <p><u>ISE</u> Range – : 0 to 19,900</p> <p>Resolution : 1 , 2 or 3 significant digit</p> <p>Relative Accuracy : +/- 0.2 mv or 0.05% , whichever is greater</p> <p>Unit : M , mg / L , % , ppb or no unit .</p> <p>Calibration Points : 1 to 5 points</p> <p>Data Logging Points : 750 points</p> <p>Password Protection : Yes</p> <p>Power : Universal power adapter alternatively battery power</p> <p>Ambient operating Temp. of pH meter : 5 to 45 degree C</p> <p>International Protection (IP) rating : IP54 , Splash proof & dust proof</p> <p>Temperature Range / Resolution : - 5 to 105 degree C / 0.1 up to 99.9 degree C, 1.0 over 99.9 degree C</p> <p>Relative Accuracy : +/- 0.1 degree C</p> <p>Temperature Compensation : Auto / Manual</p>

			750 points data logging, Last 10 calibration logged, 10 user method can be saved, Software down load / update facility, Battery as well as power line facility, IP 54 , sating – splash proof , dust proof, Electrode connector – water proof., RS232 facility to connect with Computer & printer., 3 years warranty .
16	HPLC	1	<p>Microprocessor controlled Binary/ Quaternary pump with programmable solvent flow rate, range of solvent flow rate with accuracy and precision are to be mentioned. Solvent flow rate and solvent compressibility should be key board settable. Facilities for liner and nonlinear should be available. Pressure ranges and limit are to be mentioned.</p> <p>Injector : Loop injector, Volume of loop is to be mentioned with Auto sampler.</p> <ul style="list-style-type: none"> • Detector (A) Diode array detector, wave length range 190-800 nm, light source spectral sensitivity. <p>Column: C 18, C8, CN, Silica (Two each)</p> <p>Column Oven.</p> <p>Complete Set of Software, Spares, Consumables with computer with printers both laser color and dot matrix printers, 24 pin with ribbon etc.</p> <p>5 KV on line UPS.</p>
17	TLC pre-coated TLC plate	1	20x20 cm, aluminum silica gel plate, 200 /250 µm thickness. – 1 pack.
18	Semi automatic spot / band applicator	1	Spray on, 4 pattern Applicator ---Quantitative analysis, micro-preparative, in-situ and superimpose. 10-method memory storage, stand-alone or PC control. Sample positioning on X & Y axis freely selectable, variable rate of delivery, accepts 100 ul & 500 ul syringes. Self diagnostic + validation + Link to System Manager built-in.
19	TCL development chamber	1	All glass, small internal volume chambers, bottom divided into two halves; maximum 5-15 ml mobile phase / run, S.S. leak - proof lid. Appropriate size chambers for 20 x 20, 20 x 10, 10 x 10 cm plates
20	TCL reagent sprayer	1	Glass make with Erlenmeyer flask (100 ml) & rubber pump.
21	Photo documentation & visualization with UV illumination cabinet	1	Dual wavelength 254 + 366 nm UV Cabinet with a digital camera (12 mega px).
22	Horizontal gel electrophoresis system	1	➤ Buffer chamber assembly, safety lids with voltage leads,

	(Imported)		<ul style="list-style-type: none"> ➤ Removable leak free gel casting tray with two comb positions, to include 1 x UV tray (12-13 x 15-16cm), 2 x 1 mm, 16-32 well combs, buffer recirculation ports The gel configuration can be tailor with variety of combs. Combs depth is adjustable. ➤ It should be recirculation method to prevent ionic depletion on long gel runs. ➤ Maximum buffer volume 500 - 1.2 L ➤ Coloured loading strips. ➤ With numeric keypads. ➤ Including all accessories and spares ➤ Maximum temperature : 45 °C ➤ Power supply: 400 V, 300mA, 50 watt.
23	Gel Documentation System	1	<ul style="list-style-type: none"> ➤ 16 bit Scientific Grade, Zero Defect CCD Camera with Anti-reflective coating & MicroLens for sensitivity upto pg level. Should have atleast 1392 x 1040 pixel Resolution, Electronic optical iris and electronic optical focus. ➤ Flat Field Calibration for uniformity of light acquisition cross the sensor. Should have dark current noise corrections for increased image acquisition speed & reduced background noise. ➤ Motorized zoom lens: 8-48mm. ➤ Auto image Capture for single button click to automatically control & adjust camera zoom, focus and iris as well as exposure time simultaneously. ➤ Metallic Darkroom which should be hemi luminescence imaging ready & fully controlled through computer as well as through touchpad on darkroom. ➤ 5-Position Motorized Filter Wheel for Multiplex Imaging with controls through touch panel on darkroom as well as through software. ➤ Light source should automatically switch off after image acquisition. ➤ Automatic door lock. ➤ Exposure time : 0.001 - 30 s ➤ With software & hardware binning
24	Deep Freezer (-80 Deg. Centigrade)	2	<ul style="list-style-type: none"> ➤ Conventional Polyurethane foam insulation ➤ Easy-to-read LED display at eye level. ➤ Capacity above 500 Litres Upright ➤ Vent plunger, Heated Air Vent to prevent vacuum formation. ➤ Programmable Temperature range up to – 86 Deg. (1°C increment) at ambient temperature of 32°C Centigrade.

		<ul style="list-style-type: none"> ➤ Should have constant performance monitoring of both refrigeration systems, including compressors and fan motors with self-diagnostic function. ➤ Should incorporate energy savings by running the two independent refrigeration systems in overlapping cycles ➤ Should have Audible & visual alarms for: High/low temperature, Door ajar, Power failure, Remote alarm contact, Part replacement notification, Fan lock alarm, Refrigeration circuit abnormal alarm ➤ Should have Filter less construction to eliminate the need for an air filter or bothersome filter cleaning and maintenance ➤ Keyed lock, user-defined password protection, stainless steel interior Automatic Reset, Automatic Restart with Non-Volatile memory, programmed Restart. ➤ With at least 4-5 compartments and requisite adjustable-height shelves, rack box and dividers and insulated inner doors made of crack & chip resistant ABS material, interior made of high grade cold rolled steel with rounded corners. ➤ System should have pressure equalization port, automatic voltage boost compensation for low voltage condition, integrated over temperature safety alarms with battery backup and audible warning of temperature deviation, enhanced acoustic insulation to reduce compressor sound, ➤ Should have 2 independent compressors, Hermetic 1100 W, with their independent evaporators and cooling fans. Compressors should not be mutually dependent high & low stage system compressors ➤ Should have a facility that in case 1 compressor fails, the other compressor maintains a minimum temperature of -65°C for an indefinite period ➤ Should have two independent, insulated & removable inner doors (HCFC Free). Should have an outer door latch & an outer door lock <p>CFC, HCFC free refrigerants, with servo voltage stabilizer Should be FDA certified, ISO 9001 & 14001 compliant</p>
25	Refrigerated Centrifuge (Imported)	<p style="text-align: center;">2</p> <ul style="list-style-type: none"> ➤ Microprocessor controlled ➤ Maximum Speed (rpm) 20,000 or more ➤ Max. g-Force in X g: 50,000 ➤ Maximum Capacity: 4 x 1,000 ml ➤ Automatic positive rotor identification of rotors ➤ Programmability: 30 programs ➤ Color TFT display of both preset and actual values

			<ul style="list-style-type: none"> ➤ Operating panel with buttons and one rotary knob for all parameters ➤ Preset Time: Up to 180 min with increments of 1 min ➤ Preset Speed: From 500 rpm to max. Speed with increments of 100 rpm ➤ Preset g-Force: With increments of 10 x g ➤ Direct self-centering drive system with brushless induction motor ➤ Speed Accuracy: less than 1 % ➤ Acceleration/ Deceleration Time: 30 sec. – 3.5 min. ➤ Dynamic electric brake system ➤ Temperature Set Range: -20°C to +40°C ➤ Cooling at standstill ➤ Temperature Control Accuracy: ±2°C ➤ Over Temperature Sample Protection facility ➤ CFC-free refrigerant ➤ Safety Features: Overspeed detection, Imbalance detection and cut-off <p>Four point lid fixing</p> <ul style="list-style-type: none"> ➤ Automatic motor driven lid lock with emergency lid lock release ➤ Max. Power Consumption 6.5 kVA ➤ Dimensions (W x D x H): in cm 27.4 x 31.3 x 46.1 ➤ Net Weight in kg: 315.0 ➤ Certification: CE, ISO 9001 ➤ Power : 200-240 VAC, 50 Hz, single phase with servo voltage stabilizer ➤ Multiple Rotors to include from 1.5 ml to 1000 ml.
26	Micropipette Set	2	<ul style="list-style-type: none"> ➤ 4 digits Volume display, Fully Autoclavable ➤ Capacity: 0.5-10µl, 10-100µl, 100-1000µl, complete with stand ➤ UV Resistant ➤ Completely autoclavable. ➤ Lockable volume controller requiring fewer turns, reduced force requirement for aspiration and blow out, ➤ CE mark, light in weight, ➤ Stainless steel springs / piston , ➤ 5 (Five) years warranty.
27	Inverted microscope with Phase contrast ,	1	<ul style="list-style-type: none"> ➤ Ergonomically designed sturdy stand, quintuple reversed nosepiece,

	UV attachment, low light CCD cooled camera (Imported)	<ul style="list-style-type: none"> ➤ Sidentopf trinocular tube with 30° inclined-wide field 10x/ 20 mm-fixed anti spill stage with attachable mechanical stage with travel range of 112mm x 79mm with petridish holder long working distance, phase condenser Rotating phase turret, Phase telescope coaxial course & fine focusing with tension adjustment and auto focus provided infinity corrected optical system ➤ anti fungal: true color achromat phase fluorescence objectives 5 x /012, ph10x/ 0.25, ph25x/ 0.40, ph 40x/ 0.60, illumination 6v/ 30w halogen with intensity control, reflected light 100w mercury fluorescence filter:dapi & Hoechst fitc/rsgfp/fluor 3/ dio acridine orange (+ rna)tritic (rhodamine) dil/cy3.Cmtl.Fluor. ➤ Camera-3-Megapixel,USB,12-bit Digitization,12-bit Uncompressed Output, ➤ Master Clock: 24.3 MHz, c-mount Microscope Interfacing Connection, ➤ Interline CCD Sensor,2048 x 1536 Pixel Array, ➤ Responsivity: 19.2 DN (nJ/cm²) at Unity Gain with IR Filter, ➤ Pixel Size: 2.775 um x 2.775 um, signal to noise Ratio:60dB, ➤ Imaging Area:7.193mmx5.395mm-8.991mm diagonal, electronic global shutter, frame
28	Gradient Thermal Cycler (Imported)	<p style="text-align: center;">1</p> <ul style="list-style-type: none"> ➤ Large backlit touch screen, wide gradient of 30°C, real time graphical display, Memory cards, Gradient calculator, Interchangeable versatile block format ➤ Block temperature Gradient range -20⁰C to 70⁰C, Maximum gradient 30⁰C ➤ Maximum ramp rate 3.00C/sec; block uniformity at 50⁰C-<+/-0.3⁰C; column uniformity with 10⁰C gradient-<+/-0.3⁰C ➤ Temperature range 4⁰C to 99⁰C, temperature set point precision 0.1⁰C ➤ Heated lid- Selectable heated lid temperature-115⁰C, Heated lid enable/disable. ➤ Over temperature cut-out, Regulated lid pressure ➤ Block formats : 0.5ml ; 0.2ml ; 384 ➤ Gradient block: 0.5 ml, 0.2 ml, 384 ➤ Block Temperature: Gradient range: 20°C to 70°C ➤ Maximum gradient : 30°C (16°C for 384 block) ➤ Maximum ramp rate : 3.0°C/sec

		<ul style="list-style-type: none"> ➤ Block uniformity at 50°C* : <math>\pm 0.3^\circ\text{C}</math> ➤ Column uniformity with a 10°C gradient* : <math>\pm 0.3^\circ\text{C}</math> ➤ Temperature range : 4°C to 99°C ➤ Temperature set point precision : 0.1°C ➤ Memory cards ➤ Number of programs : 50 or 1000 (with card) ➤ Password protection ➤ Programming : Touch screen ➤ Graphical display: Real- Time Graph ➤ Incremental/ decremental temperature ➤ Incremental/decremental hold time ➤ Maximum hold time: 99 hrs; Minimum hold time: 1 sec ➤ Variable programmable ramp rate: 0.1°C/sec steps ➤ Run end time calculation ➤ Pause and stop facility ➤ End of program alarm ➤ Auto restart on power failure ➤ Dual voltage (115/230V) ➤ Thermistor Temperature sensor ➤ Peltier elements/block : 8 ➤ Connection to PC control programs ➤ Power consumption: 620 Watts; Frequency: 50-60 Hz; Voltage: 230/115V or 100V. 															
29	Trinocular Research microscope for bright field, Phase contrast, Dark field with Digital camera attachment. (Imported)	<p>Microscope for observation for Bright Field, Dark Field, Phase Contrast with Universal Turret Condenser for automatic switching and up gradable for Polarization Contrast.</p> <p>Magnification : 40x-1000x for observation.</p> <p>Optical system : infinity optical system.</p> <p>Eyepiece tube : sidentopf design super wide field Trinocular tube, should be inclined at 25 degree angle with f.o.v. 25mm. Should be anti-fungus type.</p> <p>Eyepiece lens : 0x (2pcs) with both Eye piece lens : 10 X (2 Pcs) with both sides diopter adjustment f.o.v. 25mm or better.</p> <p>1 Objective : High N.A.. & long working distance plan achromat</p> <table border="0" style="width: 100%;"> <tr> <td>Objectives</td> <td style="text-align: center;"><u>n.a</u></td> <td style="text-align: center;"><u>w.d</u></td> </tr> <tr> <td>Plan achro 4x :</td> <td style="text-align: center;">0.10mm</td> <td style="text-align: center;">30.0mm</td> </tr> <tr> <td>Plan achro DL10x :</td> <td style="text-align: center;">0.25mm</td> <td style="text-align: center;">10.5mm, PH1</td> </tr> <tr> <td>Plan achro DL 40x :</td> <td style="text-align: center;">0.65mm</td> <td style="text-align: center;">0.56mm, spring-loaded, ph2</td> </tr> <tr> <td>Plan achro dl100x oil</td> <td style="text-align: center;">1.25mm</td> <td style="text-align: center;">0.20mm spring-loaded,ph3</td> </tr> </table> <p>Nose piece : sextuple nosepiece. To accomadate more objectives</p>	Objectives	<u>n.a</u>	<u>w.d</u>	Plan achro 4x :	0.10mm	30.0mm	Plan achro DL10x :	0.25mm	10.5mm, PH1	Plan achro DL 40x :	0.65mm	0.56mm, spring-loaded, ph2	Plan achro dl100x oil	1.25mm	0.20mm spring-loaded,ph3
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		<p>Coarse/fine focusing : fine 0.1mm per rotation/coarse 13.8mm per rotation. Coarse motion torque adjustable. Refocussing stopper Should be incorporated.</p> <p>Stage : super hard alumite coated surface, stay in position</p> <p>Stage handle, stage handle height & tension should be adjustable. Rectangular 159mm x 243 mm surface stage, 78mm x 54mm cross travel range using low positioned coaxial x and y motion control on righthand side with capacity to hold two slide glass at a time. Stage should be refocussing type so that it can be dropped instantaneously when pushed down for easy replacement and oiling of slides at 100x.</p> <p>Condenser : universal condenser should have 6 position (1 bright field position with aperture diaphragm na 0.9, 3 phase position (ph1, ph2, ph3) 1 dark field position na 0.75, 1 closed position dia illumination.])</p> <p>Illumination : 6v- 30w halogen lamp with world wide, voltage(100-240v)</p> <p>Built-in filter : should have built-in nd8 filter</p> <p>Digital camera :digital camera capable of handling brightfield,</p> <p>Attachment: fluorescence, dic, darkfield images with 2/3” high density ccd chip, approx. 5.24 million pixel resolutions. Live display mode: (5m interlace mode – 5.9 frames/sec.; 23 frame per / sec. With roi & binning); binning modes: 2x2, 4x4, digital zoom: upto 16x (8 steps) ; interval shooting : 5 sec. – 12 hr intervals. Software should be comes along with camera for aquiring & capturing of images. Should have separate modes for different microscopy techniques i.e brightfield, fluorescence, dic, darkfield images. Usb port for attaching camera onto desktop/laptop through single wire.</p> <p>Note: microscope, camera & software should be from one source for better compatibility</p>
30	ELISA Reader and plate washer with accessories	<p>ELISA READER :</p> <ul style="list-style-type: none"> ➤ Fully automatic, Spectral Range: 400-750nm , Readout Range: 0-3.5Abs , Accuracy: +/- 2% , not more than 0.008 Abs ➤ Precision: CV< 0.5 % , not more than 0.008Abs, Linearity: +/- 2% or 0.007 Abs ➤ Filters: 8 slot filter wheel with 3 filters ➤ Half Band width of Filters : 3-9nm ➤ Reading Speed: Not more than 6 seconds entire 96 well plate , Plate Movement: Selectable Continuous Mode as well as Stepping mode

		<ul style="list-style-type: none"> ➤ Interface Connections: Serial RS-232 interface & parallel printer interface ➤ Shaking: Linear Shaking , 3 speeds ➤ Key Pad: 30 keys with click action switches ➤ Display: 2x24-character LCD and convenient soft-keys ➤ Optical System: Quartz Tungsten Halogen lamp (8V/50W) ➤ Onboard software: Single/dual wavelength endpoint, single wavelength kinetic, two point measurements. Ranged , Greyscale , threshold, point to point, Linear Regression , Cubic Spline, Cut off calculations. ➤ Onboard memory: Minimum 64 assay protocols, retained blank & retained curve fits. ➤ External software: Windows based software – for operation and data reduction for use with external computer to control reader. <p>Printer: External Power Source: 200-240V, 50Hz. Consumption of 170VA Max.</p> <p>ELISA WASHER: Fully automatic, easy to operate. Washes flat, round and V-bottom plates and strips. Wash volume: 50-750 µl in 50 µl increments No of washing cycles: 1-15 cycles with programmable card Residual aspiration volume: ≤ 5 µl Wash time: 120 s, 3 x 350 µl with 12-way wash head 165 s, 3 x 350 µl with 8-way wash head Priming and rinsing volume: 15-20 ml</p> <p>General features Microplate Capability : 6-, 12-, 24-, 48-, 96 well. Wash heads 8- and 12- way User Interface Wash program cards, programmable card Containers: Wash bottle 2 l, waste bottle 2 l</p>
31	Class II B2 Vertical biohazard safety cabinet (Imported)	<p style="text-align: center;">1</p> <ul style="list-style-type: none"> ➤ Cabinet should provide biological containment protection for both operator and product. Cabinet must comply to NSF/ANSI 49 standard. ➤ Cabinet should be single pass flow through design in which all HEPA filtered work zone and work access inflow air, is drawn through the cabinet's internal exhaust HEPA filter and exhaust duct work to a remotely located roof exhaust blower. ➤ Measurement of pre-filter or HEPA filter life. ➤ Supply HEPA filter should be of full cabinet work zone width and depth; work zone below supply ➤ Integrated UV Light.

		<ul style="list-style-type: none"> ➤ Programmability of cabinet function and parameters ➤ Clean filters, fans at full speed, interior lighting activated. ➤ Cabinet constructed from 16GA, Type 304 stainless steel forming an all welded, monolith, sealed structure. ➤ Cabinet shall be easily fumigated ➤ Standard non-metallic arm rest comfort while maintaining containment performance. ➤ Cabinet with user-adjustable base stand or base storage cabinet as an option. ➤ Cabinet shall have a large removable work tray with curved corners for easy cleaning. ➤ The cabinet shall have all positive pressure plenums surrounded by a vacuum relative to the room. ➤ Sound pressure level will be <63 dB(A) ➤ There should be DC motor technology for improve energy efficiency. ➤ There should be a display for real time information of overall performance factor. ➤ Visual and audible alarm for window status. ➤ The cabinet front shall be ergonomically designed at 10° sloped for enhance comfort to the operator. ➤ Digital Airflow Verification (DAVe) at +/- 20%. ➤ Exhaust/inflow air volume 530 m³/h (330 CFM) ➤ Automatic balancing of downflow and inflow/exhaust velocity of air to ensure continuous safe working conditions. ➤ Night-set-back mode to extend the HEPA filters life. ➤ A line diagram showing position of HEPA filter and blowers with direction
32	<p>Class II A2 Biological Safety Cabinet (Imported)</p>	<p style="text-align: center;">2</p> <ul style="list-style-type: none"> ➤ The cabinet front shall be ergonomically designed at 10° sloped for enhance comfort to the operator. ➤ Supply/exhaust air filter :HEPA H14 EN1822,99.995 at 0.3um particle size ➤ Cabinet must comply to NSF/ANSI 49 standard ➤ Sound pressure level will be <63 dB(A) ➤ There should be DC motor technology for improve energy efficiency. ➤ There should be a display for real time information of overall performance factor. ➤ Visual and audible alarm for window status. ➤ Interior should be stainless steel with Armrest. ➤ Smart Clean technology to reduce the sample contamination in inner surface.

		<ul style="list-style-type: none"> ➤ Digital Airflow Verification (DAVe) at +/- 20%. ➤ Exhaust/inflow air volume 530 m³/h (330 CFM) ➤ Automatic balancing of downflow and inflow/exhaust velocity of air to ensure continuous safe working conditions. ➤ Night-set-back mode to extend the HEPA filters life. ➤ A line diagram showing position of HEPA filter and blowers with direction
33	Ultra Centrifuge	<p>1</p> <ul style="list-style-type: none"> ➤ Maximum Speed : 100,000 rpm or more ➤ Speed Control Accuracy : ± 10 rpm ➤ Maximum RCF : 8,02,000 x g (approx) ➤ Maximum Capacity : 1.5 litre. ➤ Tube range : 1.5 ml to 250 ml ➤ Set Temperature : 0° to 40° C ➤ Ambient Temperature : 10° to 35° C ➤ Cooling System : CFC/HCFC free ➤ Acceleration/Deceleration Profile : Each 10 or more ➤ Programmability : 20 or more with step run facility ➤ Power : 210 – 240 VAC, 50 Hz,30A ➤ Machine should have features like eye – balancing of samples, entry through keypad & touch screen and user locking facility, delayed start/stop, dual display of RUN & SET parameters, RPM/RCF mode, Run scheduling etc. ➤ Machine should have flexibility to accept rotors of other makes. Fixed Angle Rotors, with volumes 8 places of 38-40 ml (50,000 rpm), 6 places of 12-15 ml (65,000 rpm), 24 places of 1.5 ml (50,000 rpm) & 8 places of 100 ml (40,000 rpm). All these rotors should be of Carbon Fiber only. And each supplied with respective tubes and caps along with Tube sealing device (if needed) suitable for various applications.
34	Vaccum Pump	<p>1</p> <ul style="list-style-type: none"> ➤ 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

			➤ Power : 230 VAC, 50/60 Hz
35	Electronic Balance	3	<ul style="list-style-type: none"> ➤ Made of MONOLITHIC Technology ➤ Built in internal calibration with function like : initial calibration , Auto calibration according to change in ambient temperature, User selected time calibration ➤ Standard RS-232 interface / Ps2 output ➤ 7 segment Backlit display, two large tare keys, stability indicator, 4 user selectable filter levels, plus optimized display update rate . ➤ Inbuilt density determination for solid & liquid ➤ Various weight units like ct, mg, gm, oz, dwt , mom, GN ➤ Hanger for below-balance weighing, Overload protection. ➤ ISO-GLP / GPM compliance printouts. <p>Improved repeatability for better results. Capacity : 210 gm. Readability : 0.01 mg. PAN Size : 80Ø.</p>
36	Split AC	2	1 ton and 0.5 ton
37	Split AC	2	0.5 ton

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 15 of the General Conditions of Contract and Clause 10 of the Special Conditions of Contract 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

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 2010

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

.....
(Name)

Contract Form

(On Non Judicial stamp of adequate amount)

THIS AGREEMENT made the day of 20.... 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
1	2	3	4	5 (3 X 4)	6	7 (5 + 6)
	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

SI 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

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