

TENDER PAPER

Name of Project: DBT sponsored 'Impact assessment of Jhuming on native plants and soil micro biota.....in North-East India'

Sr. No.	Name of the equipment / instrument	Detailed specification	Quantity	Rate
1.	Compound microscope with built-in digital scientific camera	<p>Upright Microscope complete with trinocular head, UIS optical system, sidetop head, Plan achromatic objectives, antifungal treated optics, pair of eye piece 10x and reticules for measuring and pointing, quadruple revolving nosepiece, mechanical stage, abbe condenser, plan objectives: 4x, 10x, 40x, and 100x oil, 6V20W HAL halogen bulb, blue filter , power cord, dust cover, Phase contrast attachment, Dark field attachment, consisting of high resolution light weight CCD Camera for excellent image contrast, and an optically corrected C-Mount microscope adapter that can be fitted in any Trinocular Microscope, with PC compatible image captured PC-Card, Image Analysis Software for image editing, image processing, morphometry, count, classification and creating databases and preparing reports, with branded desk top computer with preloaded operating system of Configuration: Intel core 2010, Operating system: Microsoft windows 7 and branded Printer: LaserJet colour, duplex facility complete with 2KVA online UPS (10min. battery back-up)</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 set	
2	Zoom stereoscopic microscope with built-in digital scientific camera	<p>Upright Microscopes complete with Trinocular Head, 45° inclined having zoom ratio 1:7, objective zoom range 0.65-4.5x, paired wide field eyepieces SWF 10x/22mm, working distance 100mm, with in-built light stand (incident: 6V15W lamp/Transmitted: 5W Fluorescence lamp) standard set (Magnification range: 6.5x-45x with 10x eye piece), power cord, dust cover, consisting of high resolution light weight CCD Camera for excellent image contrast, and an optically corrected C-Mount microscope adapter that can be fitted in any Trinocular Microscope, with PC compatible image captured PC-Card, Image Analysis Software for image editing, image processing, morphometry, count, classification and creating databases and preparing reports, with branded desk top computer with preloaded operating system of Configuration: Intel core 2010, Operating system: Microsoft windows 7 and branded Printer: LaserJet colour, duplex facility, with 1KVA /2KVA online UPS (10min. battery back-up).</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 set	
3	Laminar airflow	Vertical laminar flow complete with front acrylic	1 No.	

	cabinet	<p>transparent door, size 2'x2'x 2', stainless steel work Table, side panels are provided of durable transparent acrylic sheets, fitted with pre-filter assemblage 5-20 microns (95% efficiency) and highly effective HEPA filter-0.3 microns or less preferably (99.97% efficiency), manometer, minimized vibration and noise from blower, fluorescent lightings with light intensity Lux 900 - 1300, work on 220/230 volts AC, 50 Hz., extra power outlet switch, air flow 0.45 to 0.65 m/s., U. V Light attached , Air/ Gas/ Cock, Antivibrating level leg/Castor wheels complete with power cord and plug of compatible capacity.</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>		
4.	Encapsulator	<p>Bioencapsulation of cells and microbes under full sterile working conditions in a reaction vessel and pumping by integrated syringe pump or air pressure, works with integrated stroboscope lamp and electrostatic dispersion mechanism, Control unit with integrated pump, Reaction vessel, Bead producing unit for single nozzles, Set of 8 single nozzles of diameter of single (core) nozzles 0.08, 0.12, 0.15, 0.2, 0.3, 0.45, 0.75 and 1.0 mm., Magnetic stirrer, 2 pressure bottles Voltage: 100-240V / 50-60 Hz, Dimension 32x38x48 cm, weight 11 kg, Droplet size range 0.15 to 2 mm, vibration frequency 40 to 6000 Hz, pump rate by air pressure 0.5 to 200 ml/min, syringe pump for 1 to 60 ml syringes, syringe pump rate 0.01 to 50 ml/min, dead volume approx. 0.5 ml, working pressure upto 1.5 bar, reactor gross volume 4.5 litre, reactor working volume 2 litre, parts in contact with medium can be autoclaved, and a compatible oil& moisture free air compressor of 10 bar pressure.</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 set	
5.	Refrigerated High Speed Centrifuge with variable rotor heads	<p>Low volume high speed table top cooling centrifuge with Angle rotor head of capacity 4x100ml, CFC free refrigeration system, Brushless motor with frequency drive, Digital control communication, feather touch parameter setting switches, choice of rpm/rcf setting, digital countdown timer 0-99min and continuous run, Inverter fault detection with auto shut down, last set parameter recall, automatic door opening, gas hinge to prevent door falling, emergency lid lock release, motor overload protection, automatic rotor identification, Functional displays on the LED, Working Chamber temperature, lid status , rotor imbalance detection with centrifugation cut off, and additional 12x15ml capacity rotor head</p> <p>Max. speed: 20000 Max. RCF: 37570 g Lowest temperature: -8°C or less</p>	1 set	

		<p>Dimension WxDxH : 775x575x475 mm Supply : 220-240 Volts 50 Hz single phase</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>		
6.	High Precision electronic Balance	<p>210gm (capacity), sensitivity: 0.1mg, Green Florescent display, built in calibration weight, pan diameter 80-90mm, with wind draft shield (standard) & operates on power 230V 50Hz</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 No.	
7.	Autoclave (vertical)	<p>Vertical, Working pressure between 15 to 22 p.s.i. (adjustable), 14” Dia x 22” Height, double walled construction, inner chamber (Boiler) made of SS and outer chamber covered with MS sheet, thick steel plate lid tightened by radial locking system, Fitted with joint less neoprene rubber gasket, systems should be hydraulically tested up to 40 p.s.i. as a safety measure, complete with water indicator, pressure gauge, steam release cock, safety valve, pedal lifting device and immersion heaters, system working upto 30 psi S.S. perforated basket, cord and plug, work on 220/230 volts A.C.</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 No.	
8.	Top pan balance	<p>Max. capacity: 10kg, Readability: 0.1gm, pan size: 230 X 320mm, display-LED, auto power off, battery indicator, overload protection design, rust proof stainless steel platter, high resolution upto 30000 counts.</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 No.	
9.	UPS-5KVA online with 2 h backup with rack	<p>Branded UPS of output power capacity 5KVA online with 20 number 42 AH/ 12V Battery (SMF) including steel rack of 120 minutes backup capacity, 3500 Watts, 230 V, efficiency at full load 92.00% 50/60 Hz +/-3Hz user adjustable battery type maintenance free sealed lead-acid battery with suspended electrolyte: leak proof, Control panel LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : Overload and Bypass Indicators, Audible Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm, Emergency Power Off (EPO), Maximum Height 432.00 mm, Maximum Width 130.00 mm, Maximum Depth 660.00 mm</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 set	

10.	Voltage stabilizer	<p>Cap 5 KVA Servo controlled Input range-120-280 Volts Output range: 230±1% Volts</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 No.	
11.	BOD incubator	<p>Temperature is controlled by Electronic Digital Temperature Controller Cum-indicator from 5°C to 60°C with an accuracy of +/-0.5°C, Inside air circulating system must be provided by fan. Cabinet is double walled in construction, inner being made of Stainless Steel and outside mild steel sheet painted in epoxy\ powder coating, inner chamber has a Plexiglass door, outer door completely opaque, work on 220/230 volts A.C. Size 5 to 6 Cft., volume of 142 to 170 lits. approx., interior illumination, Provided with 3 removable shelves, complete with timer and compatible stabilizer.</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 No.	
12.	Wet Sieving Shaker with set of brass sieves	<p>Wet Sieve Shaker Yoder Type, motor driven, consisting of water reservoir and holder for sieve of capacity 4 set of sieves and Test Sieves of fine series of Aperture size: 0.04mm, 0.06mm, 0.10mm, 0.125 mm, 0.14mm, 0.20mm, 0.25 mm, 0.40 mm, 0.50 mm, 0.60 mm, 0.90 mm, 1.00mm, 2.00mm and Receiving pan with lid, Brass Frame diameter 8"</p> <p>Certification: ISO certified/CE marked/ ISI marked product To be Quoted in Indian rupees.</p>	1 set	

Name of Project: DBT Sponsored project on “Anti-Mullerian hormone profile, its characterization and expression for using as diagnostic marker for fertility assessment in farm animals”

All rates are to be quoted in Indian Rupees

SL. No.	Name of the equipment / instrument	Detailed specification	Quantity	Rate
1.	Thermal Cycler	Universal block for: 25x0.2 ml PCR tube; 16x0.5 ml PCR tube; One 5x5 microtiter plate; heating and cooling facilities; temperature control range from 4-99 ^o C, Block homogeneity: 20-72 ^o C: ≤±0.4 ^o C; 95 ^o C: ≤±0.5 ^o C, Precision accuracy per well; Temperature control speed approx. 3 ^o C/s (heating) / 2 ^o C (cooling); Provision of heat able lid; number of programs 100 in device; max no. of cycle 99; digital display; RS232 interface, Sufficient warranty period.	1 No.	
2.	Gel electrophoresis apparatus with power supply unit	Buffer Vol: min. 900ml Gel Size: min. 12 x15cm Sample capacity: 100 nos. at least; Complete with removable UV gel tray min. 12 x15cm , casting gate, with following accessories: Coloured strips- at least one; Combs: at least two; Compatible Power Supply unit with constant voltage, current or power. Overload protection, Automatic crossover. Short circuit Protection. Sufficient warranty period.	1 Unit	
3.	UV Transilluminator	Super bright, high contrasting power, multi-dyes Transilluminator with high quality UV filter, workable with both Syber-Green and Etidium Bromide gels, no background light from the UV tubes, unlimited filter life expectancy, adjustable UV output, Ondulex reflector. Sufficient warranty period.	1 unit	
4.	Laminar flow	Table top, Horizontal, Clean Air, Laminar Flow. Size: 36 ^{''} x24 ^{''} x24 ^{''} (3 ft x 2 ft), Sufficient HEPA filter area and Bio clean Workspace, Glass side panels. Sufficient warranty period.	1 unit	
5.	Autoclave	Vertical, Electrically operated. Inner & Outer chamber made of Stainless steel, Lid, Basket Made of SS, Complete with Pressure gauge, Double Safety valve, Steam release cock, Lid with paddle. With Pressure Controller. Size : minimum 12 ^{''} x 20 ^{''} Sufficient warranty period.	1 unit	
6.	Water bath with shaker	Inner & Outer Stainless Steel made. Approx. overall tank size minimum 350 x300 x 150 mm depth with moving tray of minimum 250 x 250 x 100 mm	1 unit	

		height. Temperature range ambient to 95 deg C controlled to ± 0.2 deg C by Solid State Time Proportional Temperature Controller-cum-Digital Display using PT-100 as Sensor. Shaking speed variable from 10 to 200 strokes per minute. Sufficient clamps for conical flasks of different volumes. Sufficient warranty period.		
7.	Tissue floatation bath	Tissue floatation bath size: minimum 200 mm X 100 mm Temperature Range ambient +5deg C to 80 deg C. Interior of the bath made of black Anodized Aluminum. Digital temperature Controller-cum-Indicator, LED display for Set Value & Process Value. Sufficient warranty period.	1 unit	