TENDER NOTICE

National Innovation Foundation India, invites quotations for the following instruments in two bid system. The interested vendors/companies can submit their quotations in two separate sealed envelope (one for technical and one for financial) by 25th February-2013 up to 2:00 PM at National Innovation Foundation, Bungalow No. 1, Satellite Complex, Opp. Mansi Tower, Vastrapur, Ahmedabad-380015. The technical bids will be opened on 28th February 2013 at 11:00 AM, Venue: Conference Hall, NIF India. The term and conditions are as follows:

Terms & Conditions:

1. The technical and price bids should be quoted separately in different sealed envelopes.
2. The financial bids of those bidders will be considered who qualify under technical bid. The date of opening the financial bids of qualified technical bidders will be informed separately.
3. The prices quoted must include **CIF** charges.
4. The delivery period should be clearly indicated in the quotation.
5. Submitted quotations should clearly mention the validity period, preferably for a minimum of **3 months** (25th May 2013).
6. Incomplete and conditional submitted tenders would be summarily rejected.
7. The mode of payment should be clearly indicated.
8. Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.
9. In case the quotation is being submitted by authorized agent of the principal manufacturing company, the AUTHORISED SALES AGENCYSHIP certificate from the PRINCIPAL should be furnished along with the quotation. Quotations without this authorization certificate will be rejected.
10. The quotation should include comprehensive **warranty for at least 2 years and one year free service**.
11. Special discount/rebate wherever admissible keeping in view that items are being procured for educational purpose in respect of Public Institution of national importance may please be indicated.
12. Vendors should attach the relevant brochure/leaflet for the models/options quoted.

13. Vendors should attach users list.

Details of instruments along with specifications

Sr. No	Instruments	Specifications
1	Autoclave (60 L , Automatic)	Vertical type with SS body (inside and outside), Dual jacket, with differential pressure and temperature display system, Standard temperature and pressure control system. Installed with Steam Release cock, Air valve, Pressure gauge, Low water level switch to protect the heater from low water level
2	ELISA Reader -	• Reader with Absorbance Range: 0 - 3.5, • Linearity : ± 2% • Plate type : 6-384 wells • Wavelength range : 200-850 nm • Wavelength selection: Monochromator : 1 nm increment • Bandwidth: < 5 nm • Dynamic range: 0-4 OD • Accuracy: better than 0.01OD • Endpoint readtime: 10-15 s (96 wells) • Power supply: 200-250 V, 50 Hz • Inbuilt data printer • Additional facility to attach with computer system with necessary operating software, • Accessories: Inbuilt camera for ELISA plate photography
3	ELISA Washer (Automatic)	• Instrument with differential volume, multichannel adapter system and auto-cleaning facility. • Plate type: 96- and 384-well • Fluid delivery: Internal positive displacement pump with manifold • Washing volume : 50 - 3000 µL/well; Selectable in 1 µL increments • Washing cycle: 1-10 • Dispense precision: ≤3% • CV: 300 µL/well • Power supply: 200-250 V, 50 Hz • Accessories: Reagents bottle, tubing etc.
4	LAF (4x2x2 ft)	LXBXH (4X2X2) with standard pre-filter and HEPA filter installed (horizontal type) LAF Biosafety cabinet suitable for work with microorganisms assigned to biological safety levels I, II

		or III. Should be complete with a germicidal UV lamp, fluorescent lamp, one electrical outlet, and a support stand with leveling feet or castors. Cabinet controls - Microprocessor based touch pad controls with UV interlock system to protect the operator in case of accidental raising of front sliding window. • Main body should be constructed of electro-galvanised steel or equivalent material. • Stainless steel interior side walls and back walls. • Stainless steel work surface. • Efficiency of HEPA filters: Minimum: 99.99 % at 0.3µm • Power Supply: 230 VAC, 50Hz, single phase
5	Gas Chromatography (GC) with Accessories	**High Performance GC system with data management workstation** • Programmable Flow and Pressure modes, • Suitable for all capillary columns (50 µm to 530 µm id), • Injector with Constant or Programmed Temperature, • Capillary column compatible with 1/8" and 1/16" packed column. • Detector: Installed with FID and ECD detectors. • Capacity to do FAME analysis with suitable programme (biolouge). • Heat up time 50 - 250°C in 2 to 4 minutes • Cool down time 250 - 50°C in 2 to 4 minutes **Column Oven** • Temperature range: room temperature + 4°C to 450°C • Temperature deviation: <2°C max. • Temperature variation coefficient: <0.01°C/°C • Temperature program steps: Up to 20 **Injection Port**: • Maximum 3 independently temperature controlled injector units. Injection port unit: Split/splitless. • Temperature range: room temperature + 5°C to 450°C • **Detectors:** upto 3 or more installed simultaneously and individually temperature controlled. Running of two detector

		simultaneously **Flame Ionization Detector (FID)** • Temperature range: to 450°C • Minimum detected quantity: 3 pgC/s (dodecane) • Dynamic range: 10^7 **Thermal Conductivity Detector (TCD)** • Temperature range: to 400°C • Sensitivity:20000 mv.mL/mg (decane) • Dynamic range 105 **Electron Capture Detector (ECD)** • Temperature range: to 400°C • Minimum detected quantity: 8 fg/s (-BHC) • Dynamic range: 104 **Flow Control Unit:** Advanced Flow Controller (AFC) • Data Management system: State of art computer system with complete system management software for identification and Quantitation Functions together with various types of Calibration Curve and laser printer; ISO9011 and CE certified • Power supply: 200-250 V, 50 Hz **Accessories:** capillary column (25 M or more); Packed columns as per requirement, Gases (zero air, nitrogen, hydrogen) with cylinders and regulators with manifold attachment, Moisture trap, UPS, Software installed on computer system, etc. Warranty: 3+ years Up-gradation: May be done for MS detector, head space sampler and thermal desorption
6	Homogenizer	• RPM 1000 – 5000, • Variable Speed, • Digital Display, • Capacity 10 liters/batch • Variable blades and shaft.
7	CO2 Incubator (300 L Capacity)	• Capacity 12 cubic feet, • Auto-sterilization, • Humidity control and display system • Air/Water jacket attached with HEPA filter;

		• Temp Range Ambient plus to ≥ 60 C (Temp readability/accuracy:± 0.2 C); • Type of CO2 sensor: TCD or IR; CO2 range: 0-20%; control: ± 0.1%; Humidity: ambient to app. 95%; • Internal chamber and shelves made of high grade SS . Minimum Nos. of shelves: 3 or more; Built-in decontamination/ sterilization through 90 ^{o}C moist heat or 120 ^{o}C dry heat; CE Certified; • Power supply: 200-250 V, 50 Hz
8	Liquid Nitrogen –Container (20L)	Liquid nitrogen container with 20 liter capacity and trolley.
9	Sample storage Rack	Made with SS, detachable and adjustable, Cabinet Storage space of 3 x 1 feet, wall fitted
10	Extract Storage rack	Made with SS, Cabinet Storage space of 3 x 1 feet with 6 racks, door fitted with glass, key and lock system
11	Incinerator (Medium size 5 kg)	Incinerator with capacity of 5kg per batch
12	Extract Fractionation and Fraction collection unit	• Made with fine glass, capacity 10 – 15 liters/batch, • Attached with heater and condenser for fractionation • Attached with fraction collector (heavy and light)
13	Soxhlet apparatus	Capacity 10 liter RB Flask Heating mantle coil type Fitted with condenser and solvent collector
14	Micro centrifuge	Non refrigerated Micro centrifuge with variable Speed maximum up to 16000 RPM, installed with RPM indicator and controller. The instrument should contain digital timer with capacity to changeable rotor heads of various types. Suitable for small centrifuge tubes and eppendorf tubes of variable size. Microprocessor based digital display with safety lid lock
15	Hazardous Chemical storage rack	Made with SS, Cabinet Storage space of 3 x 1 feet with 6 racks, door fitted with glass, key and lock system
16	Soxhlet apparatus	• Capacity 5 liter RB Flask • Heating mantle coil type • Fitted with condenser and solvent collector

17	Rotavapour	• Capacity 50 - 3000 ml/hour, with variable flask, RPM and Pressure. • Coupled with Cooling system/heat exchanger. • Rotation speed 20–200 rpm or higher • Digital Temp controller with display: ambient to 100 ^{o}C or higher with temp accuracy ± 2 ^{o}C; CE certified • Attached with all required accessories
18	Dissecting Microscope	• Binocular Dissecting Microscope with all accessories
19	Stereoscopic Compound Microscope	Stereoscopic Compound Microscope with all accessories • 10 X eyepiece • Minimum 8 X to 35 X resolution • Reflected and transmitted light with variable light intensity control (with life time of 25ooo hr or more) • Minimum working distance of about 100 mm. • Digital camera (3 MPixel or better) with digital imaging module, CMOS sensor, built-in SD card slot (with card) as well as live video facility through USB 2.0 • Imaging software for image capture, measuring, adding micron bar and annotation application • In-built stabilising power supply
20	Trinocular	• Trinocular with inbuilt camera with all accessories and storage conditions
21	Lyophilizer	• Lyophilizer with Ampoule sealing kit • Capacity : 6 L or more • Condenser type: Exposed coil • Condenser Temp: - 85 C to – 100 C or better • Shelf Temp --70 C to +65 C or better • Compressor 2 HP or higher • Vacuum Pump : 200 LPM • Vacuum Gauge Thermocouple Type fitted in the chamber • Electrical Service 200V/50Hz 1PH Accessories: 1. Manifold for drying flasks, an optional manifold can be added. The manifold installation the top of the unit and accommodates 12 or more vacuum valves. 2. Vacuum flasks with necessary adapters 3. Ampoule sealing kit

22	Walkin cold room	Automatic walkin cold room with detachable panels having Inner chamber dimeter : 3 Meters L x 3 Meters W x 3 Meters H. temperature ranges from 0^0 – 10^0 with digital display
23	Fumigation Chambers	Fumigation chambers for fumigating the plant specimens with fumigants having the following sizes 36" x 24" x 32"; 30" x 20" x 26" and 24" x 16" x 22"
24	Power Back Up	'30KVA INVERTER' with 3-5 hrs Battery Backup (3-Phase Input-3-Phase Output)
25	Drier	Size: 3 Meters L x 1.5 Meters W x 2 Meters H with facility of keeping multiple racks at a time. Automatic temperature and humidity control system with digital display.
25	Digital catalogue (desktop)	Intel® Core™ i7-3770 with Intel HD Graphics 4000 (3.40 GHz, 8 MB cache, 4 cores), Internal drive SATA (7200 rpm) From:250 GB Up to: 1 TB; RAM 4GB Graphics-Integrated Intel HD Graphics Basic, 2000, 2500 or 4000; AMD Radeon HD 6350 (512 MB); AMD Radeon HD 7450 (1 GB); NVIDIA NVS 300 (512 MB); NVIDIA NVS 310 (512 MB)
26	Scanner	Colour image herbarium scanner with 2400 dpi effective pixels with scanning area of 12-14 x 16-19"