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केन्द्रीय रोपण फ़सल अनुसंधान संस्थान
(भारतीय कृषि अनुसंधान परिषद)
प्रादेशिक केंद्र, विट्टल-५७४२४३, कर्नाटक, भारत

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CENTRAL PLANTATION CROPS RESEARCH INSTITUTE
(Indian Council of Agricultural Research)
REGIONAL STATION, VITTAL – 574 243, KARNATAKA, INDIA



No.F.303-141(1)/2012-Stores

Dated 06-12-2014

BRIEF TENDER NOTICE

Sealed tenders under two-bid system (Technical and Financial bids) are invited from the reputed manufacturers/dealers for supply and installation of the following equipments at this Station.

Sl.No.	Particulars	Quantity
I	CPCRI (RS) VITTAL	
01	Tissue Culture trolley /racks with complete accessories	5 Nos.
02	PCR Thermal Cycler	1 No.
03	Gel documentation assembly	1 No.
04	Desktop Computer (Branded MNC)	3 Nos.
05	Laser Printers	3 Nos.
II	CPCRI (RC) KIDU	
01	Oven with stabilizers	2 Nos.
02	Air conditioners with stabilizers	2 Nos.
03	Pumpset and irrigation accessories	2 Nos.
04	Intercom facilities	1 No.
05	Colour photocopier	1 No.
06	Digital camera with accessories	1 No.
07	Refrigerator	1 No.

01. The tender form along with detailed specifications and terms & conditions can be obtained on any working day from 08-12-2014 to 22-12-2014 between 10 AM to 3 PM from the Stores Section, CPCRI RS Vittal on payment of prescribed fee of Rs.100/- each either by cash or Demand Draft drawn in favour of ICAR Unit, CPCRI (RS)Vittal payable at Vittal. Tender forms have already been uploaded at CPCRI website(<http://www.cpcri.gov.in>).
02. Tender for each item should be submitted separately.
03. Tenders should contain both Technical bid & Financial bid separately for the equipments at S.No. I & II (12 items) in a sealed cover superscribing as "Quotation for supply of equipment due on 22-12-2014".
04. Sealed Tender along with EMD of 2% of the total value quoted should reach this office on or before 5 PM on 22-12-2014. No EMD required for the equipments costing less than Rs.1.00 lakh. The tenders received after the due date will not be considered. The tenders (technical bid) will be opened at 11.00 AM on 23-12-2014 in the committee room of CPCRI RS Vittal in the presence of tenderers, (if available).

HEAD

TENDER SCHEDULE

Title: Supply of Tissue Culture trolley/ racks

Sl.No.	Full description	Qty.	Rate	Amount
1	2	3	4	5
1	<p>Tissue Culture trolley/ racks with complete accessories for arecanut tissue culture work:</p> <p>Specifications:</p> <p>Size:1</p> <ol style="list-style-type: none"> 1. Height : 160 cms 2. Width : 130 cms 3. Made out of mild steel pipe frame 4. Distance between shelves to shelves 45 cms 5. Size of each shelf is 18"x 48" 6. Platform Surface with 6 mm Acrylic sheet 7. 4 divisions with 4 Nos. Fluorescent tubes (Photosynthetically Active Radiation Light (PAR) on each shelf with electronic chokes 8. Minimum heating effect 9. No flickering effect 10. Energy Saver with individual switching in each rack 11. Programmable time for individual rack 12. By pass switch in case of failure of electronic switch compulsory 13. Heavy duty castor wheel for each movement 14. Provision for connecting the Trolley to photoperiodic timer/control output 15. Special quality MS Square pipe with anticorrosive, humidity resistant finish 16. Clear electric circuit with marking for each fluorescent light <p>Size:2</p> <ol style="list-style-type: none"> 1. Height : 2 meters 2. Width : 135 cms 3. Distance between shelves to shelves 50 cms. separated with strong mesh sheet 4. Made out of mild steel pipe frame 5. 4 divisions with 4 Nos. Fluorescent tubes (Photosynthetically active Radiation Light (PAR) on each shelf with electronic chokes 6. Minimum heating effect 7. No flickering effect 8. Energy Saver with individual switching in each rack 9. Programmable time for individual rack 10. By pass switch in case of failure of electronic switch compulsory 11. Heavy duty castor wheel for each movement 12. Provision for connecting the Trolley to photoperiodic timer/control output 13. Special quality MS Square pipe with anticorrosive, humidity resistant finish 14. Clear electric circuit with marking for each fluorescent light 	5Nos.		

TENDER SCHEDULE

Title: Supply of Gel documentation assembly

Sl.No.	Full description	Qty.	Rate	Amount
1	2	3	4	5
1	<p>Molecular characterization of cocoa/arecanut germplasm – Specification:</p> <ol style="list-style-type: none"> 1- Imaging system should have Automatic capabilities with Application driven, user selected or recalled by a protocol. 2- Should have 100 % repeatability via recallable protocols. 3- System should have pre-calibrated focus for any zoom settings & sample height. 4- Should have appropriate flat fielding correction automatically & consistently applied to image data for every application.. 5- Versatile system to support wide range of applications like- Fluorescent dye like syber green, syber safe, Western blotting, 2-D, 1-D, Dot Blotting, Nucleic acid detection , Qunatitation etc. 6- Should have true 12 bit true CCD camera with more than 4 MP Resolution. 7- System can take max. Sample size 28 X 36 cm. 8- System should have precalibrated & optimized dynamic image flat fielding 9- It should universal dark hood & upgradeable to chemilumnescence. 10- Should have motorized zoom lens- f/1.2, 12-75mm with numerical feedback value to reduce the experimental variation -Capable of Optimizing, saving, and quickly recalling the imaging acquisition settings 11- Safe DNA Imaging without UV exposure- using the Optional Blue Conversion screen to prevent damage from UV and preserve samples for downstream protein production. 12- Reproducibly position or center the sample on the image platen by using Optional gel alignment templates. 13- The system should be capable of using it as a standalone UV Transilluminator. 14- Should be supplied with Software which is compatible with Macintosh and window operating system. 	1 No.		

	<p>15- Should come with 1 D analysis software with following features</p> <ul style="list-style-type: none"> ✓ Single mouse click from image capture to results and reports, very fast and efficient. ✓ Should have comprehensive automated quantitative analysis of proteins & DNA samples in seconds. ✓ Intuitive and well organized (efficient) selection of workflows based on applications ✓ Should calculate precisely continuous focus curves that are consistently and automatically applied for every zoom position and sample height. No user intervention for focusing. All calculations are done at setup, once and for all image captures ✓ Should have facility to save the protocols. ✓ Should provide a complete non pixilated image during zoom. ✓ Should have a option of exporting the images as per publication guidelines of size and DPI. ✓ Software should be multi user capable 			
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TENDER SCHEDULE

Title: Supply of PCR Thermal Cycler

Sl.No.	Full description	Qty.	Rate	Amount
1	2	3	4	5
1	<p><u>Molecular characterization of Cocoa/arecanut germplasm</u></p> <p><u>Gradient PCR</u></p> <p>Specifications:-</p> <p>Universal Block for 96 x 0.2ml PCR Tube, 71 x 0.5 ml PCR Tube, One 8x12 PCR plate</p> <p>Gradient PCR, capable of testing 12 different temperatures simultaneously across a gradient range of 1 - 20° C</p> <p>Temperature control range: from 4 °C to 99°C</p> <p>Temperature Control Mode: Fast, Standard and Safe</p> <p>Lid Temperature range: 37 - 110 °C</p> <p>Block Temperature Accuracy: $\pm 0.2^{\circ}\text{C}$</p> <p>Block Homogeneity: 20° C to 72° C: $\leq \pm 0.3^{\circ}\text{C}$, 95° C: $\leq \pm 0.4^{\circ}\text{C}$</p> <p>Temperature control speed: approx. 3 °C/s (heating)</p> <p>Temperature control speed: approx. 2 °C/s (cooling)</p> <p>Lid descent and closing pressure - Flexlid technology with Thermal sample Protection</p> <p>Intuitive Graphic programming with larger display</p> <p>Administrator and user login with or without PIN for enhanced security</p> <p>Booking schedule allows users to reserve the instrument in advance</p> <p>Preprogrammed template for easy selection from 16 temperature protocols viz. 2 step PCR, 3 Step PCR, Gradient PCR, Long Range PCR, Low volume PCR, RT, RT-PCR, Incubation, Cycle sequencing, Touch down PCR, Hot Start PCR, Hot Start PCR manual, Large volume PCR, Nested cycles, reduced ramping, simulate Mastercycler.</p> <p>Time or Temperature increment with cycles in PCR program</p> <p>Adjustable ramp rate from 0.1° C to 3.0° C to meet critical amplification conditions</p> <p>Customized programming allows a maximum of 20 steps and 99 cycles</p> <p>Auto Restart facility with user defined time interval when power fails and resumes</p> <p>Instrument status indicates the step, cycle and remaining runtime during the run</p>	1 No.		

Runtime display shows remaining time in larger font for better view from distance

System memory of more than 100 User folders and more than 700 programs

Two USB ports: for Protocol transfer, Self-test, USB, printer / mouse

Log book function for error messages and new calibration

E-mail Notification

Power save Standby function

Cooling vents at bottom and rear allow placing other instruments in limited bench space

Option to connect up to TWO Mastercycler nexus eco for ultimate throughput.

Optional Self-test dongle to check functionality of all 6 peltier elements

Interface: Ethernet, CAN in, CAN out

Dimensions: W: 25 cm, D: 41.2 cm, H: 32.1 cm

Weight: 10.9 kg

Power supply: 230 V, 50-60 Hz

Power consumption: 700 W

Calibration according to NIST (USA), DKD/PTB (Germany) UKAS/NPL (UK), UL/CUL listed

Two year warranty

TENDER SCHEDULE

Title: Supply of computers/printers

Sl.No.	Full description	Qty.	Rate	Amount
1	2	3	4	5
01	Desktop Computer (Branded MNC)-(HP/DELL/HCL) Intel R Core i5-4570 Processor DOS 9 – 8GB DDR3 RAM/1 7B HDD IGB Graphics Card 19.5 inch LED monitor	3 Nos.		
02	Laser Printer: Specification: Two sided automatic printer (duplex). 800 MHz processor (HP LaserJet Pro 400 Printer M401d or compatable/ equivaqlent one)	3 Nos.		

Tender schedule
Title: Supply & Installation of hot Air Oven

Sl. No.	Full description of Item	Quantity	Rate	Total amount
1.	<u>Laboratory hot air oven with suitable stabilizer :</u> size 600 mm (D), height 900 mm, Vertical model, front open door, inner made of stainless steel with mirror polish, shelf 4 nos or more, Rack made of stainless steel temperature ambiences up to 100 °C, Temperature sensitivity 0.5 °C, micro processor based temperature control and Indicator, long lasting heating element. Real time programming facility, Universal digital data recording with computer, air circulation (Fan) and maintenance of even temperature inside the chamber, powder coated and rust proof outer cabinet.	2 Nos.		

Tender Schedule

Supply & Installation of air conditioner with stabilizer

Sl. No.	Full description of Item	Quantity	Rate	Total amount
1.	Supply & installation of 3 star 2 ton split air conditioner with suitable stabilizer, stand, connection pipe etc. complete.	2 Nos		

Tender Schedule

Title : Supply and Installation of pumpset

Sl No	Particulars	Qty	Rate	Amount
1.	Supply of 20hp/15kw, 2900rpm,Electrical 3phase monoblock type open well submersible pumpset of 25metre to 65metre head with all accessories Preferably from Kirloskar/KSB/Crompton	2Nos		
2.	LT&LK Panel board with suitable starter, capacitor and all safety devices	2 Nos		
3.	6sq.mm supply cable branded only	250 metre		
4.	3" HDPE PIPE branded only	100 metre		
5.	3"HDPE Hose nipples	4 Nos		
6.	3"HDPE Hose clamps	4 Nos		
7.	Cable joint kit	2 Nos		
8.	3"Reflex valve with flange,packings,bolts &nuts etc.	2 Nos		
9.	3"Sluice valve with bolt nuts,flanges etc	2 Nos		
10.	Suitable earthing	2 Nos		
11.	Ropes for hanging pumps and any other miscellaneous items if required while installing at actual	Lumpsum		
12.	Installation of pumps,accessories wiring commissioning and testing etc.complete.	2 Nos		
Total Rs.				

Tender schedule
Title: Supply & Installation of Intercom Facility

Installation of Analog EPABX System with Twenty Extensions

Schedule A			
Detailed Description	Qty	Rate	Amount
Item No.A1:Analog EPABX System with Twenty Extensions			
<p><i>Detailed Specifications:</i></p> <p>Lines(Junction): Min 4</p> <p>Extensions: 20 presently and should have the facility to expand up to 28 by adding add-on cards.</p> <p>Control: At least 16 bit Microprocessor based; EPROM 1 Mega bit ; EEPROM :16 Kilo bit; SRAM:256 Kilo bit Static RAM with battery backup</p> <p>Switching: Space Division CMOS Cross point Switch</p> <p>Motherboard that can support the minimum capacity of 4/12</p> <p>Input Power:180 - 260 VAC - 50/60 Hz</p> <p>Maximum power consumption: 40Watts</p> <p>Battery backup with external 12 VDC is a must.</p> <p>Dialing Dial Pulse (DP) :10 pulses per second.</p> <p>Dual Tone Multi-Frequency (DTMF) : 140 milli seconds</p> <p>Dialing conversions : DP -->DTMF, DTMF – DP</p> <p>Speech paths:12 (2 paths are reserved for incoming external calls)</p> <p>Connectors: Lines and extensions: 623K4 type</p> <p>External relay and external music: 623K4 type</p> <p>Power and external interfaces: Pin connectors</p> <p>Connectivity: Standard Telephones: 2 wires</p> <p>Call Record Listing (CRL) Capacity Approximately 700 calls</p> <p>Extension Interface: Station Loop: Max. 1200 Ohms including the telephone set</p> <p>Max. Line Loop Resistance 2.2 kilo ohms</p> <p>Line Interface : Loop Start with DP and DTMF Signaling : 12/16 KHz Metering</p>	1		

Pulse Detection; Polarity Reversal Detection Cabinet should be made of metal Un it should be with Power Supply Module including a power card and cables Unit should have a Power Transformer <u>Unit should be equipped with</u> 1. Operator Console, 2. Inbuilt Key phone Connectivity, 3. Inbuilt Battery Charger; 4. Inbuilt Back Ground Music, 5. Inbuilt DISA/DOSA; 6. Inbuilt Door phone Interface 7. Inbuilt Ext Music On Hold Interface; 8.Inbuilt External Paging; 9. Inbuilt Remote Maintenance and Inbuilt Hotel-Motel Features, 10.Auto Redial Facility; 11. Unsupervised Conference; 12.External Call Forwarding. Others: 1. The EPABX should comply with the local exchange communication system parameters. 2. PABX should have the facility to route the line to a predefined extension when switched off.				
Total A1				
Item No.A2:Optional Items Required along with item A1				
SI No	Items	Qty	Rate	Amount
1	Caller Line Identification Card to suit with item A1	1		
2	Branded Lead Acid Battery 12V 35AH for backup for item A1	1		
3	Standard Battery Charger (5A minimum) with copper terminal connectors to use with above item A2-2	1		
4	Caller Line Identification Presentation(CLIP) Phones (20 lines +2 standby)	22		
Total A2				
Total (A1 + A2)				

Schedule B

Item No.B1 Cabling Work

Sl No	Item of Work	Qty	Rate	Amount
1	Branded good quality 20 pair jelly filled underground cable and open cabling charges	130 m		
2	Branded good quality 10 pair jelly filled underground cable and open cabling charges	70 m		
3	Branded good quality 5 pair jelly filled underground cable and open cabling charges	400 m		
4	Branded good quality 50 pair krone box& module	1		
5	Branded good quality 20 pair krone box& module	1		
6	Branded good quality 10 pair krone box& module	6		
7	Standard Earthing* GI Pipe Earthing; Pipe:1 ¼ m length, 1 ½ inch diameter; Copper Earth Wire 14SWG minimum; Earth Pit 1 ¼ mx24cmx24cm filled with charcoal, salt etc as per electrical standards	1		
Total B1				

Item No B2. Civil Work

Sl. No	Items of Work	Qty	Rate	Amount
1	Earthwork excavation of trenches, width 23cm and depth 75cm for laying underground cables including excavation, dressing of sides , ramming of bottom , removing the excavated soil and then replacing ate soil as required in layers not exceeding 20cm depth and consolidation of each deposited layer by ramming ,watering etc and disposing of surplus excavated soil as directed with in a lead	600 m (Rmt)		
2	Specification as above but for road cutting bituminous portion at 2 different places of length 6 meter approx.	12m (Rmt)		

Providing and laying in position 50mm thick cement concrete mix of 1:2:4:using 20mm size jelly and clean sieved approved sand (coarse) over a bed of 100mm thick C.C. 1:4:8(1 cement 4 coarse sand: 8 graded stone aggregate)using 40 mm down size jelly for road cutting stretch. The rate includes the cost of conveyance of all materials, labour ramming curing etc as required.	12m (Rmt)		
Total B2			
Total (B1 + B2)			

Total expense for the whole system including all components, cabling and related civil works

A1+A2: Analogue EPABX System :-_____

B1+B2 Cabling Work and Civil Work :-_____

Total (Appr.) :-_____

Add KVAT 4% :-_____

Total :-_____

Rounded to :-_____

(Rupees _____ only)

Terms and Conditions:

- Warranty:Min for a period of ONE Year for the whole sytem and compenents.
- Supply and Installation:Onsite at CPCRI Research Centre, Kidu, DK, Karnataka.
- *Standard Earthing and strong input line protection should be done as part of installation.
- All the above four items A1, A2 and labour work B1, B2 should be quoted / undertaken by a single firm. No piecemeal / subletting quote is acceptable.
- All the measurements given in the attached sketch are for information purpose only and may not necessarily match the actual measurements.
- Tendereres may visit the site and take actual measurements before quoting.
- Tenders should be specialised agencies / contractors having exposure in similar kind of (EPABX cabling and installation) works.
- A copy of works executed preferably in Govt. Institutions by the firm/agency has to be enclosed along with the quotation.
- The performance security of 10% will be released only after the completion of defects after the warranty period of one year from the date of completion, provided the firm attends the complaints and rectify the fault as per the satisfaction of the SIC.
- Detailed and complete technical specification of the unit /components SHOULD BE ENCLOSED with the quote.**

Tender Schedule

Title: Supply & Installation of Colour Photocopier with stabilizer

Sl No	Description	Unit	Amount
1	Functions: Color & B/w copy, print, scan, duplex, network Copy Speed: 20 copies per minute in color or b/w Print speed: 20 prints per minute in color or b/w Duplex: automatic back to back copying/printing Copy/Print/Scan Size : up to A3 (max) Zoom range: 25% to 400% Paper capacity: 2 × 250 sheet paper tray, 100 sheet bypass Memory: 512 MB. Resolution: 600 dpi Interface: 10/100 mbps Ethernet Network unit & USB 2.0	1	
Total			

Tender Schedule

Title: Digital camera with accessories and storage device

Sl no.	Full description	Qty reqd	Approx cost Rs.
1	<p><u>Digital image capturing camera</u></p> <p>Type : DSLR Megapixel : 24 to 36 mega pixel Image sensor : CMOS sensor Dust reduction system : Yes Lens : 30-70mm and 70-200mm ISO sensitivity : Low light performance with Inbuilt flash White balance : Auto Video compression : MPEG-4 Monitor : Tilt/TFT/LCD 3-4inch USB : Hi-speed USB HDMIoutput : C mini- HDMI Remote control : Yes Battery : rechargeable Li-ion battery Compatibility : windows compatible software for editing. Accessories : Tripod, memory card of 16-32GB GPS and WiFi : enabled</p>	1	

2	<p><u>Digital image storage device for digital camera</u></p> <p><u>System features:</u></p> <p>Operating system Windows 8, 64bit Processor family :Intel® Core™ i5 processor Processor : Intel® Core™ i5-3470S (2.9 GHz, 6 MB cache, 4 cores) Chipset :Intel H61</p> <p>Memory: Memory, standard (1x 4 GB) 4 GB 1600MHz DDR3 Memory slots 2 SODIMM</p> <p>Storage: Internal drive 1TB 7200rpm SATA Optical drive Slim tray super multi DVD burner</p> <p>Display and Graphics Display 21.5" diagonal widescreen full HD (1920 X 1080) Graphics NVIDIA GeForce GT 720A (1 GB DDR3 dedicated) Warranty: 3years limited (3 years parts, 3 years onsite) Warranty with up-and-running phone support for first 30 days Cyberlink Power DVD</p>	1	
Total			

Tender schedule

Title: Supply & Installation of refrigerator with accessories and stabilizer

Sl. No.	Full description of Item	Quantity	Rate	Total amount
1.	Supply & installation of refrigerator of capacity 300-350lts. Double door, multi flow cooling system, 3-4 selves, and with 3-5 energy star rating with accessories like stand and stabilizer.	1Nos		