



# UNIVERSITY OF AGRICULTURAL SCIENCES BENGALURU

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## **e-Tender Notification No. SPO/e-Tender/03/2011-12,** **Dt: 7-9-2011**

The University of Agricultural Sciences, Bangalore has invited e-Tender as per the Standard tender document KG-1 & KG-2 from the reputed firms for the procurement, installation, erection & demonstration of the following equipments. The details of the KG-1 & KG-2, e-tender Notification, schedule, specifications, EMD amount are available in the website [www.tenderwizard.com/UASB](http://www.tenderwizard.com/UASB). The cost of Tender forms is to be furnished in the form of Demand Draft drawn in favour of the Comptroller, UAS, GKVK, Bengaluru-65 (Incl of VAT) along with the requisition letter.

Sl. No	Name of the Equipments	Qty	Tender Doc. Fees (Rs.)	Total EMD (Rs.)
1	Intel Core i7 Model Desk Top Computers. <b>The Dean (PGS), GKVK</b>	30 Nos.	2,100-00	15,000-00
2	Fully Automated Microchip Electrophoresis for DNA/RNA Sizing Analysis <b>(MAS-LAB, GPB, GKVK)</b>	1 No.	2,100-00	20,000-00
3	Real Time PCR <b>(MAS-LAB, GPB, GKVK)</b>	1 No.	2,100-00	18,000-00
4	Server <b>(Agrometeorology, GKVK )</b>	1 No.	2,100-00	17,500-00
5	Gradient PCR Machine <b>(MAS-LAB, GPB, GKVK)</b>	1 No.	1050-00	5,800-00
6	Transcriptome DNA Sequencing & Annotation <b>(CP ,GKVK)</b>	Sequence information of 5-8 thousand genes	1050-00	7,000-00
7	Geno Grinder/Tissue Lyser <b>(CP,Sunflower,GKVK)</b>	1 No.	1050-00	6,000-00
8	Additional Components for High Power Computing (HPC) server & Accessories <b>(Agrometeorology, GKVK)</b>	<b>1 No.</b>	1050-00	8,000-00
9	Refrigerated table Top Centrifuge <b>(MAS-LAB, GPB, GKVK)</b>	1 No.	525-00	4,500-00
10	Geographical Position System (GPS) <b>(Agrometeorology, GKVK )</b>	25 Nos.	525-00	5,000-00
11	Deep Freezer (-86°C) <b>(CP,Sunflower,GKVK)</b>	1 No.	525-00	4,500-00
12	Wooden Perforated Pallets <b>(NSP, GKVK )</b>	50 Nos.	525-00	3,000-00
13	Deep Freezer (-20°C) <b>(CP ,GKVK)</b>	1 No.	525-00	1,750-00
14	PCR Machine <b>(CP ,GKVK)</b>	1 No.	525-00	2,690-00
15	Paddy Transplanter <b>(Dean (Agri), V.C.Farm, Mandya)</b>	1 No.	525-00	1,780-00
16	Paddy Transplanter <b>(Sr. Farm Suptd, ZARS, V.C.Farm, Mandya)</b>	1 No.	525-00	1,800-00
17	Refrigerated table Top Centrifuge <b>(CP,Sunflower,GKVK)</b>	1 No.	525-00	5,000-00
18	10 KVA DG Set <b>(Dean (Agri), Hassan)</b>	1 No.	525-00	2,000-00

The reputed firms are required to produce the following certificates to the undersigned, along with the application to be eligible to get access to e-Tender. Firm Registration/Incorporation Certificate /TIN/VAT/CST/PAN/Import Export Code Certificate (IEC)

For Sl. No. 1, 4 & 8, the State Govt. of Karnataka approved empanelled vendors are eligible to participate in the tender.

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The KG-1 & KG-2 document may be downloaded from the website: [www.tenderwizard.com/UASB](http://www.tenderwizard.com/UASB) and the tenderers are required to fill in the tender rates in the price schedule and upload the same before the last date.

Access to the e-Tendering will be issued after scrutinizing the applications received from the Tenderers, and after due verification of the CERTIFICATES only to the eligible applicants. Incomplete applications will not be accepted. The EMD should be in the form of Demand Draft drawn in favour of the Comptroller, UAS, GKVK, Bengaluru-65, shall be scanned and uploaded to the e-Tender document and the original Hard copy of EMD should be submitted to the UNDERSIGNED in a sealed cover duly super scribing the e-tender notification Number and equipment name and the firm address on or before 7-10-11 up to 4.00 P.M.

The detailed specification of the equipments can be had from the office of the undersigned and in the website mentioned above. The details of Specifications, Catalogue, manufacturing /authorized dealer certificate should be uploaded along with the Price Bid in the e-tender.

SCHEDULE OF EVENTS		
1	Last date for receipt of application for issue of tender forms up to 4.00 P.M	28-9-11
2	Issue of Tender document for Downloading the e-Tender Document after 4.00 P.M	30-9-11
3	Last date for Uploading e-Tender documents up to 4.00 P.M	7-10-11
4	Opening date of e-tender at 10.30 A.M at Estate Office, GKVK, Blore-65	10-10-11

The University reserves the right to accept or reject any or all the tenders without assigning any reasons. Further, details can be had from undersigned during office hours and also refer UAS Website: [www.uasbangalore.edu.in](http://www.uasbangalore.edu.in). The Tenderers need to register with KEONICS, Bangalore and to obtain user ID and Password for participating in e-Tender. For more details please contact KEONICS OFFICE Ph: 080-40482000 and the Stores Purchase Officer, Central Stores, Opp: Hebbal Police Station, Hebbal, Bengaluru-560024, Phone No. 080-23411524.

**ESTATE OFFICER**

**SPECIFICATIONS**

**e-tender Notf'n No. SPO/e-tender/03/2011-12,  
Dt: 7-9-2011**

Sl. No	Name of the Equipments/ Furniture	Qty	Specifications	Total EMD (Rs.)	Rates quoted by the Firm																																														
					In Fig	In words																																													
1	Intel Core i7 Model Desk Top Computer <b>The Dean (PGS), GKVK</b>	30 Nos.	<p><u>Supplying, installing and demonstration of the Intel Core i7 Model Desk Top Computer with the following Configuration</u></p> <p>Acer Veriton M200 Desktop Intel Core i7/equivalent — 860 Processor (2.8 Ghz / 8 MB cache/ 32NM) /Intel H 57 Chipset Mother Board I/500 GB SATA HDD 7200 rpm, 2 GB DDR3 1066 MHz RAM/ PS2 Key Board Optical Mouse/16x SATA DVD Writer/ 3 Years Mc Afee Antivirus Subscription/ Monitor/ Windows 7 Professional Operating System/ M Tower Cabinet/ 3 Years Warranty</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Offices</th> <th>Computers Qty</th> </tr> </thead> <tbody> <tr><td>1</td><td>Vice chancellor</td><td>--</td></tr> <tr><td>2</td><td>Administrative Office</td><td>2</td></tr> <tr><td>3</td><td>Estate Office</td><td>2</td></tr> <tr><td>4</td><td>Comptroller Office</td><td>3</td></tr> <tr><td>5</td><td>Registrar Office</td><td>-</td></tr> <tr><td>6</td><td>Dean(Agri)</td><td>-</td></tr> <tr><td>7</td><td>Dean (PGS)</td><td>-</td></tr> <tr><td>8</td><td>Library</td><td>5</td></tr> <tr><td>9</td><td>Dean (Agri), Mandya</td><td>2</td></tr> <tr><td>10</td><td>Dean (Agri), Shimoga</td><td>2</td></tr> <tr><td>11</td><td>Dean (Seri), Chintamani</td><td>6</td></tr> <tr><td>12</td><td>Dean (Agri), Hassan</td><td>6</td></tr> <tr><td>13</td><td>Dean (Forestry.), Ponnampet</td><td>2</td></tr> <tr><td></td><td><b>TOTAL</b></td><td><b>30</b></td></tr> </tbody> </table>	Sl. No	Offices	Computers Qty	1	Vice chancellor	--	2	Administrative Office	2	3	Estate Office	2	4	Comptroller Office	3	5	Registrar Office	-	6	Dean(Agri)	-	7	Dean (PGS)	-	8	Library	5	9	Dean (Agri), Mandya	2	10	Dean (Agri), Shimoga	2	11	Dean (Seri), Chintamani	6	12	Dean (Agri), Hassan	6	13	Dean (Forestry.), Ponnampet	2		<b>TOTAL</b>	<b>30</b>	15000-00		
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2	Fully Automated Microchip Electrophoresis for DNA/RNA Sizing Analysis ( <b>MAS-LAB, GPB, GKVK</b> )	1 No.	<p>Supplying and Installation of fully Automated Microchip Electrophoresis for DNA/RNA analysis with following Specification.</p> <p><b>a)</b> Reusable Micro-Chips for minimum of 3500 analysis, Compatible with wide range of sample tubes &amp; plates for fully Automated analysis. Should be capable of analyzing single sample to 96 well plate sample in one loading. Analysis cycle time should be as low as 75 sec/sample. System should be quoted in complete for DNA &amp; RNA analysis which should include Chips &amp; reagent kits. Required kits for running samples in specific range from 25-500bp for 2000 analyses, 100-1000bp for 1000 analyses, 1000bp and above for 1000 analyses &amp; RNA Kit for 1000 analyses should be supplied. Cost per analysis per sample should be lowest possible. (APC Make/equivalent)</p> <p><b>b)</b> Software control for system control &amp; data analysis, 8 sets of micro chips.</p> <p><b>c)</b> Online 4KVA UPS System with 3 Hr backup single phase with SMF battery</p> <p>The Agency should give Testing &amp; Demonstration to the enduser.</p> <p>The rate should be inclusive of all items.</p>	20000-00																																															
3	Real Time PCR ( <b>MAS-LAB, GPB, GKVK</b> )	1 No.	<p>Supplying and Installation of Real Time PCR Machine with following Specification.</p> <p><b>a)</b> Should be a fast gradient Real Time PCR system for Nucleic acid and protein analysis, with ramp rates of</p>	18000-00																																															

			<p>4°C/sec for heating and 3°C/sec for cooling. Flexibility to adjust ramp rates to run standard protocol without change in hardware. Should have peltier driven thermal block to accommodate 96 well PCR plate, 0.2ml strips or 0.2ml individual tubes of SBS standard format. The block temperature should be maintained at 20 deg C till the start of PCR cycle to minimize non-specific amplification. Should have temperature Gradient range of 20°C in all three steps of PCR to provide additional flexibility while extrapolating established PCR protocols to suit, real time chemistries. Optical Detection Module with minimal mechanical movement to capture sensitive fluorescence emission from reaction volumes as low as 5ul -100ul, Excitation Light Source (LED Array) with a life time warranty with the capability to excite dyes like SYBR Green, FAM. VIC. JOE, NED, TAMRA and ROX. The system should have a minimum of 2 emission filters. Channel photomultiplier as detector to provide a 9 log dynamic range. Open system that allows the user to adopt to advanced chemistries like Plexor and Scorpions along with SYBR green, Taqman and Molecular Beacons from different vendors with documented proof such as user guide. Software should support performing: Absolute quantification, Relative quantification. Melting curve analysis. Allelic Discrimination. Plus/Minus assays End point assays. ThermoFluor assays for Protein Characterization Software should provide raw data of fluorescence as well as advanced options to export configurations compatible with analysis software like qBASE. geNorm. REST and GenEx. System should be supplied complete with</p> <p><b>b)</b> Branded laptop with minimum Core i3 Processor, 3 GB DDR 3, 320GB. DVD RW. Windows Xp Pro, 17" monitor. It should be possible to use the system for regular PCR applications by switching off the optical module.</p> <p><b>c)</b> 3 KVA Online UPS with 1 hour back up should be supplied for the uninterrupted functioning of the system. The vendor should have a fully functional application laboratory to support and trouble shoot problems if any in India. The system should be licensed to perform Real time PCR.</p> <p>The Agency should give Testing &amp; Demonstration to the enduser. The rate should be inclusive of all items.</p>			
4	Server (Agrometeorology, GKVK )	1 No	<p>Supplying and Installation of Server with following Specification. <b><u>Power Vault NX3 100 Network Attached Storage/equivalent</u></b></p> <p>Intel(R) Quad Core E5620 Xeon(R) CPU, 2.4Ghz/12M Cache/5.86 GT/s QPI, Turbo - Processor Chassis and TPM Motherboard For Hotplug HDD Only - R510x 12 Chassis, Westmere CPU Bezel for Power Vault NX3100/DL2200 Ship info for NX3100 24GB Memory (6x4GB), 1333MHz, Dual Rank LV RDIMMs for 2 Processors Intel(R) Quad Core E5620 Xeon(R) CPU, 2.4Ghz/12M Cache/5.86 GT/s QPI, Turbo - 2<sup>nd</sup> Processor Heat Sink for Dual Processor config</p>	17500-00		

			<p><b>24TB (2TB x12) 7.2KRPM Near Line, 6Gbps SAS 3.5-inch Hot Plug Hard Drive</b></p> <p><b>2x146GB 10K RPM 6Gbps SAS 2.5" non Hot Plug Hard Drive</b></p> <p>Software Installer Tool iSCSI Target for Power Vault NX3000 PERC H700 Integrated RAID Controller 512MB Cache Operating System: recent version of RHEL/SUSE Linux External DVD-ROM Drive, 8x Max Speed, USB Connection for Ms 2008 R2 Jumper cord 12A,4M for all APCC countries except ANZ Redundant Power Supply 750W Cable for PERC H700 Integrated RAID Controller Battery cable for PERCH700 card iDRAC6 Express Info on Maser Lite Maser Daughter Card MASER SW Info Mod for R510/NX3100 Installation of a Server, Storage or Peripheral Device, Power Vault NAS MWT</p> <p>Technical Support</p> <p>Power Vault NX3100 label 3Yr Pro Support: (7x24) 4-hour Onsite Service Pro Support: (7x24) 4-hour Onsite Service, 3Yr warranty Pro Support: 7x24 Technical Support &amp; Assistance for IT Staff: 3Yr and warranty 2U Cable Management Arm Sliding Ready Rack Rails Cl: RAID1/RAID5 config for NX3100 3 CHAN memory used Electronic Instruction Manual Memory Info for 2 CPU config</p> <p><b>Power Edge(TM) M1000e Modular Blade Enclosure, 1OU Chassis</b></p> <p>Chassis Enclosure for Modular Blade Server Media Tray for External Optical Drive Chassis Fan No Label Jumper Cord 250V, 16A, 2FT, C19/C20 Electronic Instruction Manual (No hardcopy) Ship Mod for Power Edge (TM) M1000e 13x Blank Blade Fillers Basic PDU, OU/1U, 220-240V/16A, (7)C13,(2)C19 Redundant Power Supplies (3+3 2700W), High Efficiency,</p> <p>M1000E Blade Chassis Info MOD for 3+3 PSU Option PDU Power Cord, 1EC309-16A to 19, 250V, 16A, 12FT Redundant: Power Connect (TM) M6220 Ethernet Switch Module For Info Only: No I/O Modules No I/O Modules No Mouse KB212-B USB Entry Business Keyboard (English) Avocent (R) Integrated KVM Switch Module Open Manage(TM) Software Kit for Power Edge(TM) M1000e Installation of a Server, Storage or Peripheral Device, Blade</p> <p>Enclosure Technical Support 3Yr Basic Core Support with warranty Static Rapid Rails(TM) for Power Edge(TM) M1000e Flex Address Plus Enabled Redundant Chassis Management Controller CMC Extended Storage Card</p>			
		1 No				
		1 No	<p><b>Power Edge(TM) Rack 4220, Full Set (Air Ship)</b></p> <p>Track Code Ship Mod</p> <p>Basic PDU, OU/1U, 220-240V/16A, (7)C13,(2)C19 Front-mounted PDU Cord Retention Kit Rack PDU</p>			

		2 No	<p>Temperature Sensor Rack PDU  Temperature/Humidity Sensor PDU Power Cord,  1EC309-16A to 19, 250V, 16A, 12FT Boxing Label  Mod For Monitor Only 1/17FP Rack Console(17" LCD  w/ 1U Tray and Rapid Rails; w/o Keyboard &amp; Mouse)  1xPower Cord, GType, 230V (Nepal, Sri Lanka, India)  96-key Server Keyboard with Touch Pad (Eng). USB  plus PS/2 connections Installation of a Power Edge  Rack Technical Support 42U Rack Frame with Door &amp;  Side Panels Air Ship with Warranty:</p> <p><b>Power Connect(TM) M6220 Gigabit Managed Ethernet Switch-Redundant</b>  User's Guide for Power Connect(TM) M6220  Serial I/O Management Cable for M6220 console  Technical Support  3 Yr Basic Core Support with warranty  The Agency should give Testing &amp; Demonstration to the enduser.  The rate should be inclusive of all items.</p>			
5	<p>Low valume High Speed Gradient PCR Machine  (MAS-LAB, GPB, GKVK)</p>	1 No.	<p>Supplying and Installation of Low vo1ume High speed Gradient PCR Machine. with following Specification.</p> <p>PCR applications with Block for 96x 0.2 ml and 1x PCR Plate (8x12)-unskirted/semi-skirted and full skirted PCR plate. Innovative lid technology with Sealed Gel to reduce evaporation, Gradient Block - Over 12 Columns with selectable from 1 deg C to 24 deg C across the entire temp. Control range. Gradient should be capable of running at the specified ramping rates. System should be capable of sample protection during initial PCR set up and should be able to provide device driven hot start to reduce side products for, capable of heating rate - 6 deg C or better &amp; Cooling rate 4.5 deg C better, Sample working volume~10ul or less on regular 0.2 ml PCR tubes. Upgradable to real-time PCR. Optional self- test of peltier elements. RS 232 and printer interface. two years warranty</p> <p>The Agency should give Testing &amp; Demonstration to the enduser.  The rate should be inclusive of all items.</p>	5800-00		
6	<p>Sequencing &amp; Annotation of Transcriptome (DNA)Sequencing &amp; Annotation.  (CP ,GKVK)</p>	Seque nce inform ation of 5-8 thousa nd genes	<p>Supplying and Installation of Sequencing &amp; Annotation of Transcriptome (DNA)Sequencing &amp; Annotation with following Specification.</p> <p>To perform global transcript analysis to discover novel genes expressed under drought conditions from plant leaf tissues using modern sequencing systems. The transcriptome analysis has to be performed using modern sequencing system having long read options such as 454 platform. The overall analysis involves the following tasks/responsibilities.</p>	7000-00		

			<p>1. Drought imposition (under green house condition) and leaf tissue sampling.</p> <p>2. Quality RNA isolation suited for modern sequencing platform with long sequencing reads (454 GS FLX platform); quality check using modern tools like Bioanalyzer.</p> <p>3. Sample preparation for sequencing</p> <p>a. Library preparation using specific c DNA Synthesis Kit</p> <p>b. Library normalization and Titrations of 454 adapted libraries: The library should be normalization in order to calculate fold changes in gene expression and be able to compare the data with future experiments across tissues.</p> <p>4. Sequencing using long read sequencing system-Roche 454 platform Sequencing normalized c DNA library GS FLX platform and the minimum read length should be more than 500bp</p> <p>5. Analysis of whole data set generated Bioinformatics and data analysis should done using modern tools [Contig assembly and Identifying unigene sets and analysis using Genome Quest /CLC Bio /CAP 3/Mira/Bioperl].</p> <p>The sequence data generated and supplied should be user friendly. The data need to be processed with help of cloud computing platform for rapid analysis. High quality sequence data [minimum 12-15 thousands need to be generated. A few pearl scripts may have to written to meet the project needs. The unigene sets generated must be grouped into various functional groups. The sequencing and analysis must be finished with in 4-5 weeks.</p> <p>The Agency should give Testing &amp; Demonstration to the enduser. The rate should be inclusive of all items</p>			
7	Geno Grinder/ Tissue Lyser (CP, Sunflower, GKV K)	1 No.	<p>Supplying and Installation of Geno Grinder/Tissue Lyser with following Specification.</p> <p>1. The system should offer processing of a wide variety of samples, which can be used to disrupted samples to release high-quality DNA, RNA and protein for subsequent purification and analysis.</p> <p>2. Should offer fast simultaneous disruption of up to 48 or 196 samples in minutes through high-speed shaking with tungsten beads.</p> <p>3. Processing of upto 2x 96 samples should take as little as 2-4 minutes.</p> <p>4. Should have provision of grinder jar for large sample volume.</p>	6000-00		

			<p>5. Reproducible results with difficult-to-lyse tissues.</p> <p>6. Should have provision for complete isolation &amp; sealing of samples while processing so that there is no chance of cross contamination.</p> <p>7. Should be able to disrupt multiple biological samples through high-speed shaking in plastic tubes with steel tungsten carbide or glass beads.</p> <p>8. Offer should include adapters:</p> <ul style="list-style-type: none"> <li>• Two sets of Steel (2 x 10 ml) adapters with compatible Tungsten Carbide Beads,</li> <li>• One Adapter set for disruption of up to 48 samples in 2 ml micro centrifuge tubes along with compatible beads.</li> <li>• Adapters and grinding beads for higher throughput should be included as additional accessories.</li> </ul> <p>9. Grinding jar/ adapters can be used to process large samples and should be autoclavable.</p> <p>10. User list for agriculture application should be attached with the offer.</p> <p>11. The Vendor should have a good service and application support back up to provide an effective application related troubleshooting and support.</p> <p>12. Two years warranty.</p> <p>The Agency should give Testing &amp; Demonstration to the enduser. The rate should be inclusive of all items.</p>			
8	<p>Additional Components for High Power Computing (HPC) server &amp; Accessories (Agrometeorology, GKVK)</p>	1 No.	<p>Supplying and Installation of Additional components for High Power Computing ( HPC) Server &amp; Accessories. with following Specification</p> <p><b>a) Power Edge® 2 Socket Half Height M610/equivalent Blade Server</b>  TPM Motherboard for M610, Westmere CPU Intel® Xeon(R) X5650 2.66GHz, 12M cache, 6.4 GT/s QPI, Turbo, HT, 6C Integrated One Broadcom 5709C dual-port Gigabit Ethernet with TOE enabled System Info Label for Power Edge(TM) M610, APCC Ship Mod for Power Edge(TM) M610, APCC Integrated Pack, Box Label for Intel Blade Single Blade Packaging (Shipped without Chassis) Electronic Instruction Manual Memory Info for 2 CPU config 3 CHANNEL memory used 48GB Memory (12x4GB), 1333MHz, Dual Rank RDIMMs for 2 Processors 2xProcessor Heat sink</p> <p><b>b) 2nd Intel(R) Xeon(R) X5650 2.66GHz, 12M cache, 6.4 GT/s QPI, Turbo, HT, 6C 2x300GB 10K RPM, 6Gbps SAS 2.5 “Hot Plug Hard Drive.</b>  PERC H200 Modular RAID Controller Pro Support IT Label Integration Information Order Ready Pro Support Tag</p>	8000-00		

			<p>SI,EMEA,MOD,DELL READY  SI,MOD,INFO,CSR,ELIGIBLE  TOE + iSCSI key iDRAC6 Enterprise  Operating System: recent version of RHEL/SUS  Linux 2 user Enterprise licence.  Open Manage Kit for Power Edge M610 Blade  Server Management Console 2.0  Installation Service Required Technical Support  SI,EMEA,MOD,DELL READY  SI,MOD,INFO,CSR,ELIGIBLE Main  Configuration Box Label APCC Order Ready for  Main Config Box Label  <b>c) Integration Information</b>  Pro Support: (7x24) 4-hour Onsite Service, 3Yr  Limited Warranty: Extended Year 2-3 (NBD)  Limited Warranty: Extended Year 2-3 (POW) Pro  Support: 7x24 Technical Support &amp; Assistance  for IT Staff: 3Yr Limited Warranty: Initial Year  (NBD) Limited Warranty: Initial Year (POW) 3Yr  Pro Support: (7x24) 4-hour Onsite Service C3:  Raid 1 with SATA/SAS using SAS6/IR or with  SATA/SAS/SSD using H200; Min = 2, Max  =2 Power Edge Modular-Blade Handling &amp;  Insurance Charges  POWEREDGE Delivery Charges (India)  The Agency should give Testing &amp;  Demonstration to the enduser.  <b>The rate should be inclusive of all items.</b></p>			
9	Refrigerated table Top Centrifuge (MAS-LAB, GPB, GKVK)	1 No.	<p>Supplying and Installation of Refrigerated table Top Centrifuge with following Specification.</p> <p>a) Temperature range from -9 to +40 °C &amp; able to Spin up to 14,000 rpm or 20,800 x g, should be possible to spin 28 x 50 mL Falcon tubes, Rotors, buckets, caps and adapters should be autoclavable at 121°C for 20 min), Should have option of fixed angle rotor with 45° angle bore to spin 15/50ml Falcon tubes with max rcf of 20130 x g. Functions like Stand-by refrigeration. Fast-temp function and “at set rpm” available. Speed can be set from 200 rpm to maximum speed in increments of 10 rpm, Swing— bucket rotor 4 x 500 ml with buckets to spin maximum of 28 x 50 mL Falcon tubes (Max.rcf: 3,220 x g (4000 rpm).</p> <p>b) <u>Safety features:</u></p> <ul style="list-style-type: none"> <li>• Must follow safety standards set by IEC 1010-2-020</li> <li>• Rotor should be made of anodised aluminium to ensure chemical resistance</li> <li>• Chamber must be of stainless steel material</li> </ul> <p>The Agency should give Testing &amp; Demonstration to the enduser. The rate should be inclusive of all items.</p>	4500-00		
10	Geographical Position System	25 Nos.	Supplying and Installation of Geographical Position System (GPS) with following	5000-00		

	(GPS) (Agrometeorology, GKVK )		<p>Specification</p> <p><b>a) GPS Receiver Characteristics</b></p> <ul style="list-style-type: none"> <li>• Receiver L1-C/A code SPS• Channels 16 (GPS+SBAS) or More• Antenna Built in patch• Touch Screen operation</li> </ul> <p><b>b)Sensitivity</b></p> <ul style="list-style-type: none"> <li>• Acquisition sensitivity -158 dBm</li> <li>• Tracking sensitivity -160 dBm</li> </ul> <p><b>c) <u>General Features</u></b></p> <ul style="list-style-type: none"> <li>• Storage of 10000 waypoints minimum.</li> <li>• Storage of 100 routes minimum.</li> <li>• Storage and playback of track logs</li> <li>• Interface with windows based computers through high speed USB. Transfer of Waypoints / Routes / Tracks maps between PC and device</li> <li>• Support for import of database and mapping.</li> <li>• Co-ordinate systems: Geodetic, UTM/UPS,MGRS, Indian Grid Reference System (IGRS) and user defined co-ordinate systems</li> </ul> <p><b>d) <u>Customization</u></b></p> <ul style="list-style-type: none"> <li>• There must be provision to upload the location specific weather data of the entire State</li> </ul> <p><b>e) <u>Navigational features</u></b></p> <ul style="list-style-type: none"> <li>• Supports raster and vector maps for navigation</li> <li>• Route &amp; 'GOTO' Navigation</li> <li>• Horizontal Position, Altitude, Speed and heading, time</li> <li>• Electronic compass</li> <li>• Display of distance, Cross track error (XTE). Estimated Time of Arrival (ETA), Time To Go (TTG) and other navigational parameters</li> <li>• Visual indication and audio alarms for Off track and way point approach</li> </ul> <p><b>f) <u>Accuracy (RMS)</u></b></p> <ul style="list-style-type: none"> <li>• Standalone Horizontal 5 m • GPS with SBAS 3 m</li> </ul> <p>GPS with differential Corrections 2 m • Velocity Accuracy 0.1 m/s</p> <p><b>g) <u>Reacquisition</u></b></p> <ul style="list-style-type: none"> <li>• Position 1second • Blockage time 3 minutes</li> </ul> <p><b>h) <u>Position Solution</u></b></p> <ul style="list-style-type: none"> <li>• Mode 3D / 2D position and velocity • Data update rate 1 Hz</li> </ul> <p><b>i) <u>PC /Host Communication</u></b></p> <ul style="list-style-type: none"> <li>• Interface: USB 1.2 serial interface for upload / download of data</li> </ul> <p><b>j) <u>Memory &amp; Maps</u></b></p> <ul style="list-style-type: none"> <li>• Internal RAM 2GB</li> <li>• SDIO2GB</li> <li>• Map format: ESRI Shape file, GeoTiff, User specified format with map loading application</li> </ul> <p>The Agency should give Testing &amp; Demonstration to the enduser. The rate should be inclusive of all items.</p>			
11	Deep Freezer (-86°C)	1 No.	Supplying and Installation of Deep freezer	4500-00		

(CP, Sunflower, GKV  
K)

(-86°C) with following Specification.

Capacity :	Should hold minimum 24,000 2" tubes
<b>a) Material for construction</b>	
Insulation	Polyurethane foam, 5.1", 130mm thick
Exterior	18 gauge steel, ZINTEC 1.2mm thick. Powder coated, scratch and rust resistant
Interior	Polished 304L grade stainless steel
Heated Air vent with Spring-Assisted plunger to break icing, prevents vacuum formation, allowing door to be opened quickly	
Front panel air filter	
Access ports	Two pass-through ports, 3/4", 20mm dia Heavy duty lockable castors
Password protection	For temperature set point and alarms to prevent unauthorized changes
RS- 232 interface	R- 232 option give digital link to monitor/control system, increases security and convenience
<b>b) Temperature control system</b>	
Range	Programmable temperature range from -20 to -86°C, in 1°C increments, even at ambient temperature up to 32°C
Control	Microprocessor controlled temperature and alarms with non-volatile memory
Display	Large, digital LED characters, 1/2", 1.3cm high, mounted at eye level
<b>c) Refrigeration system</b>	
a) Refrigerant	Should use CFC-free, HCFC-free, non flammable refrigerant, B-86
b) Compressor	Compressor should have generous voltage operating range from 190V to 270V (50Hz rated)
c) Should be able to maintain cabinet temperature down to -86°C even in ambient temperature as high as +32°C	
d) Compressor lubricants	Biodegradable and high performance polyolester oil
Door latch	Cam latch to ensure secure door closure and easy to open door, Possible to easily remove inner

			<table border="1"> <tr> <td></td> <td>doors for defrosting and cleaning</td> </tr> <tr> <td>Compartments and shelving</td> <td>System should have 4 adjustable height stainless steel (adjustable in 12.7mm steps) and total 5 compartments and 5 inner insulation doors. Optional extra shelf should be available</td> </tr> <tr> <td>Door seals</td> <td>Should be flexible at every low temperature down to -160°C reduce icing</td> </tr> <tr> <td>Battery back up with battery low alarm</td> <td>On boards. M.A.R.T diagnostic software that warns if there is failure, and also tells what the problem is Audible and visual alarm for high/low temperatures, power fail, system fail, battery low, filter clean</td> </tr> <tr> <td colspan="2">CE certified and UL certified</td> </tr> <tr> <td colspan="2">Power consumption (Energy efficiency)</td> </tr> <tr> <td>d)Warranty</td> <td>Two years from the date of installation</td> </tr> <tr> <td colspan="2">The Agency should give Testing &amp; Demonstration to the enduser. The rate should be inclusive of all items.</td> </tr> </table>		doors for defrosting and cleaning	Compartments and shelving	System should have 4 adjustable height stainless steel (adjustable in 12.7mm steps) and total 5 compartments and 5 inner insulation doors. Optional extra shelf should be available	Door seals	Should be flexible at every low temperature down to -160°C reduce icing	Battery back up with battery low alarm	On boards. M.A.R.T diagnostic software that warns if there is failure, and also tells what the problem is Audible and visual alarm for high/low temperatures, power fail, system fail, battery low, filter clean	CE certified and UL certified		Power consumption (Energy efficiency)		d)Warranty	Two years from the date of installation	The Agency should give Testing & Demonstration to the enduser. The rate should be inclusive of all items.				
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12	Wooden Perforated Pallets (NSP, GKVK)	50 Nos.	<p>Supplying and installing the Wooden Perforated Pallets with the following Specification:</p> <p>(1)Length - 72 inches (6 ft)</p> <p>(2) Width - 30 inches (2 ½ Ft)</p> <p><b>Size of Wooden pieces (No. of wooden pieces required per pallet)</b></p> <p>a. Base Wooden pieces (3 pieces required per pallet) 2 ½ inches thickness x 6 inches width x 30 inches length</p> <p>b. Top Wooden pieces (8 pieces required per pallet) : 2 inches thickness x 2 inches width x 2 inches length</p> <p>The rate should be inclusive of all items.</p>	3000-00																		
13	Deep Freezer (-20°c) (CP ,GKVK)	1 No.	<p>Supplying and Installation of -20°C Deep Freezer (Vertical) with following Specification</p> <p>An efficient, user friendly deep freezer (-20°C) is required for storing research samples. The equipment should be handy with clear display of temperature. The -20°C deep freezer must have the following essential features and components.</p> <ol style="list-style-type: none"> <li>1. Upright freezer (vertical) with solid door and lock system</li> <li>2. Capacity: Minimum 245 liters and above</li> <li>3. CFC/HFC free refrigerent</li> <li>4. Temperature range: -17 to -24°C (variable); digital temperature control</li> <li>5. No. of shelves: Minimum 8 and above (with minimum 4 Removable Drawers)</li> <li>6. Power requirement: 220v/ 50Hz./ 1 phase</li> </ol>	1750-00																		

			<p>7. Manual defrost option</p> <p>8. Dimension: Approximately 72x25x20 inches.</p> <p>9. Construction: Cyclopentane body (Rust Free); Insulation Puff</p> <p>10. Suitable data logger to record/monitor the temperature &amp; data documentation unit.</p> <p>11. A suitable stabilizer</p> <p>The Agency should give Testing &amp; Demonstration to the enduser.</p> <p>The rate should be inclusive of all items.</p>			
14	PCR Machine (CP ,GKVK)	1 No.	<p>Supplying and Installation of PCR Machine with following Specification.</p> <p>The machine should be <b>CE and ISO certified and Licensed and Authorized system for</b> PCR applications. The machine should be versatile and must have the following essential features.</p> <ol style="list-style-type: none"> <li>1. Block: Universal block for 96 x 0.2 ml, 70 or more of 0.5 ml tubes and adjustable heated lid for different tubes</li> <li>2. PCR cycle conditions: Temperature control range must be 4 to 99°C and regulation accuracy per well must be 0.2°C; ramp speed=3°C/s heating and 2°C /s cooling.</li> <li>3. Data storage and management: Programs stored must be 100 on device, with ability store methods on external card for safety and multiple user capability and external card for easy transfer of data between different machines; RS 232 and printer interface</li> <li>4. General features. Validation and calibration facility should be available in the system; auto-restart option in event of power failures and power consumption 500 W; minimum two years warranty.</li> </ol> <p>The Agency should give Testing &amp; Demonstration to the enduser.</p> <p>The rate should be inclusive of all items.</p>	2690-00		
15	Paddy Transplanter (Dean (Agri), V.C.Farm, Mandya)	1 No.	<p>Supplying of Paddy Transplanter with following Specification</p> <p>Engine Model -- 170F Single Cylinder Air Cooled Diesel</p> <p>Rated PoWer -- 2.94Kw</p> <p>Rated Speed -- 2600 rpm</p> <p>Weight -- 305 Kg</p> <p>Overall Dimensions L x W x H -- 2500x2131x 1300</p> <p>Row Number -- 8</p> <p>Row Spacing -- 238mm</p> <p>Distance Between Hills--140—I 70 (standard), 100—120, 120-140, 170—200 mm (Optional)</p> <p>Planting Speed -- 0.44-0.54 mt/second</p> <p>Road Travelling Speed -- 8.2 km/hr</p> <p><b>a) Travelling Mechanism</b></p> <p>Type -- Single Wheel Driven - Steel Wheel in</p>	1780-00		

			<p>Paddy Fields or Rubber Tyre on land</p> <p><b>b) <u>Planting Mechanism</u></b>  Type -- Separate crank Shaft &amp; Connecting Rod System with Seedling Pusher  Growing density of seedlings --34-42 hills/m<sup>2</sup> (Depending on hill to hill Distance)  Number of Seedlings per hill -- 3-8 (Adjustable according to density and Thickness of seedlings)  Width of Seedling Mat -- 220mm  Planting Depth -- 0-60 mm (Adjustable)  Capacity -- 1300-2000m<sup>2</sup>/hr  The Agency should give Testing &amp; Demonstration to the enduser.  The rate should be inclusive of all items.</p>																											
16	Paddy Transplanter (Sr. Farm Suptd, ZARS, V.C.Farm, Mandya)	1 No.	<p>Supplying of Paddy Transplanter with following Specification</p> <p>Engine Model -- 170F Single Cylinder Air Cooled Diesel  Rated PoWer -- 2.94Kw  Rated Speed -- 2600 rpm  Weight -- 305 Kg  Overall Dimensions L x W x H -- 2500x2131x1300  Row Number -- 8  Row Spacing -- 238mm  Distance Between Hills--140—170 (standard), 100—120, 120-140, 170—200 mm (Optional)  Planting Speed -- 0.44-0.54 mt/second  Road Travelling Speed -- 8.2 km/hr</p> <p><b>a) <u>Travelling Mechanism</u></b>  Type -- Single Wheel Driven - Steel Wheel in Paddy Fields or Rubber Tyre on land</p> <p><b>b) <u>Planting Mechanism</u></b>  Type -- Separate crank Shaft &amp; Connecting Rod System with Seedling Pusher  Growing density of seedlings --34-42 hills/m<sup>2</sup> (Depending on hill to hill Distance)  Number of Seedlings per hill -- 3-8 (Adjustable according to density and Thickness of seedlings)  Width of Seedling Mat -- 220mm  Planting Depth -- 0-60 mm (Adjustable)  Capacity -- 1300-2000m<sup>2</sup>/hr  The Agency should give Testing &amp; Demonstration to the enduser.  The rate should be inclusive of all items.</p>	1800-00																										
17	Refrigerated table Top Centrifuge (CP,Sunflower,GKV K)	1 No.	<table border="1"> <tr> <td colspan="2">Supplying and Installation of Refrigerated Table Top Centrifuge. with following Specification.</td> <td>15000-00</td> <td></td> </tr> <tr> <td>Maximum rotational speed</td> <td>18,000</td> <td></td> <td></td> </tr> <tr> <td>Maximurn centrifugal force</td> <td>25830Xg</td> <td></td> <td></td> </tr> <tr> <td>No. of Programs</td> <td>99</td> <td></td> <td></td> </tr> <tr> <td>Temperature Set Range</td> <td>-20°C to +40°C</td> <td></td> <td></td> </tr> <tr> <td>Sample temperature</td> <td>&lt;4°C at maximum speed</td> <td></td> <td></td> </tr> </table>	Supplying and Installation of Refrigerated Table Top Centrifuge. with following Specification.		15000-00		Maximum rotational speed	18,000			Maximurn centrifugal force	25830Xg			No. of Programs	99			Temperature Set Range	-20°C to +40°C			Sample temperature	<4°C at maximum speed					
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			Pre-Cooling Function	With direct button			
			Refrigeration System	CFC free			
			Rotors	Light weight corrosion proof			
			Pulse (Short) Run	Yes			
			Max Timer Range	9h, 99mm + continuous			
			Sound Level (dBA)	with swinging bucket rotor at top speed <51 / < 55 (TX-400) with F15-8x50 rotor at top speed <65			
			Max Power Consumption (W)	120 V 850/1200*1400230 V 1010/1400*1700/1950*			
			Max heat Output (BTU/h)	230 V 3447/4776			
			Safety standards	International safety regulations ie. IEC 1010			
			Max Capacity	4 x 400 ml rotor			
			Maximum centrifuge capacity	1.5L			
			Fixed Angle Rotors				
			Max Capacity	6 x 100 ml (6x100 rotor)			
			Max Speed	15200 rpm (with microvolume rotors)			
			Max RCF	25830 x g (with 30x2 ml rotor)			
			Control System	Microprocessor			
			Drive System,	Direct, brushless induction low profile motor			
			Rotor Locking System	Auto-Lock III			
			Imbalance Detection System	SMARTSpin			
			Required rotors				
			48x2m 1 Fixed Angle Rotor	Max RPF: 15200 Max RCF: 25055			
			8x50m 1 Fixed Angle Rotor	Max RPM: 14500 Max RCF: 24446			
			Microplate Rotor 2 x 3 Standard or 2 x 1 Deepwell	Max RPM: 4000 Max RCF: 2272			
			warranty	Two years from the date of installation			
			The Agency should give Testing & Demonstration to the enduser. The rate should be inclusive of all items.				
18	10 KVA DG Set (Dean (Agri), Hassan)	1 No.	Supplying, Installing, Erection & commissioning of 10 KVA DG Set with following Specification.  <b>A) Prakash Make/equivalent water cooled engine with 10 KVA, 14 BHP, 1500 RPM, 415 volts, 3 phase, 0.8 pf, 50 HZ, 12 volts, electric start, fitted with CPCB complaint Acoustic Enclosure without AMF Control Panel.</b> <b>B) EARTHING:</b> Pipe earth electrode as per IS 3043 complete with 38mm GI pipe, GI watering funnel (including Civil work like excavation) chamber and chamber cover 25 x 6mm GI strip for neutral & body earthing 2 cms, 8 SWG copper wire. <b>C) CABLING:</b> Power Cable 25 Sqmm 3 1/2 core Aluminium Under Ground Cable 10 Mtrs <b>D) SUITABLE DISTRIBUTION PANEL</b> <b>E) DG SET FOUNDATION:</b> Civil work for foundation for the DG Set Platform has	2000-00			

to be carried out as per the standard specification Lx B: 3750 Mtrs x 1500mm  
 CC 1: 4:8 6" thick CC 1:2:4 6" thick  
 Finish the surface with rough finish to spirit level.  
 There should be clear space of 1 mtr. Around platform for DO Accosting Enclosure Door opening purposes and day to day maintenance serviceability.  
**INSTALLATION & COMMISSIONING OF 1 NO.10 KVA D.G.SET AS PER BELOW MENTIONED SCOPE.**

Sl no	DESCRIPTION	QTY	UNIT
1	Power Cable 25 Sq.mm 3 ½ core Aluminium Under Ground Cable	10	Mtrs.
2	Labour Charges towards Cable Trench.	10	Mtrs.
3	Cable termination materials such as Lugs, Glands & Sockets	4	Sets
4	Concrete Platform suitable for 10 kVA DG Set	1	No.
5	Exhaust S-Bend	1	No.
6	Earthing with GI Wire, GI pipe, Charcoal and Salt including Excavation	4	Nos.
7	Electrical Inspectorate Approval	1	Job
8	Local Transportation Charges for materials	1	Job
9	Labour Charges towards installation	1	Job
10	Transportation & Unloading Charges for D. G. Set	1	Job

The Agency should give Testing & Demonstration to the enduser.  
 The rate should be inclusive of all items.

## E-TENDER DOCUMENT

e-Tenders are invited for the Supply, Installation and demonstration of the Lab. Equipments required for the University of Agricultural Sciences, Bengaluru, from the reputed manufacturers/dealers/ suppliers. The interested suppliers are requested to participate through online only. The website address is [www.tenderwizard.com/UASB](http://www.tenderwizard.com/UASB). The details of the Schedule, specifications and the EMD amount are available in the above website & also in the University website: [www.uasbangalore.edu.in](http://www.uasbangalore.edu.in)

(a) The last date for receipt of application for the issue of tender forms upto 4.00 P.M on 28-9-2011. (b) Issue of Tender document for Downloading the e-Tender Document after 4.00 P.M on 30-9-2011. (c) Last date for Uploading e-Tender documents up to 4.00 p.m on 7-10-2011. (d) The Estate Officer, GKVK, B'lore-65, will open the Tender on 10-10-2011 at 10.30 A.M. The cost of Tender Forms (Inclusive of VAT) for the equipments is indicated against each item, which is to be furnished in the form of Demand Draft/Bankers Cheque (Non-refundable) for each Item drawn in favour of the Comptroller, UAS, Bengaluru-560065. This should be submitted along with the requisition after registering with KEONICS, Bengaluru. No cash is accepted.

### TERMS AND CONDITIONS

The Intending Tenderers should have to participate through e-tender only. The Name of the Equipment and Sl. Nos. should have to be mentioned. The tenderers are required to go through the KG-1& KG-2 which is published in the website: [www.tenderwizard.com/UASB](http://www.tenderwizard.com/UASB). They are required to download the price bid & fill in the tender rates in the price schedule & upload the same within the last date & time, the additional documents are also to be uploaded. Only the hard copies of the EMD have to be submitted to the undersigned before the last date. The hard copy of the price bid should not be submitted.

The rates quoted for each of the specified equipment in the schedule should be inclusive of Taxes, (Percentage of Tax should be indicated separately) all other charges and FOR Destination, free delivery at the concerned department /colleges. The correct percentages of Sales Tax /VAT should be noted to compare the rates with that of others and rates once specified in the schedule cannot be at any time altered and if so, it will not be accepted. The quantity of each item is only approximate and the same may be increased or decreased according to the necessity. In case of Local equipments the price bid have to be quoted in Indian Currency & in case of imported equipments the price may be quoted in foreign currency.

Every Tenderer should deposit a sum of Rupees as indicated in the enclosed Schedule as Earnest Money Deposit (EMD) by means of Bank draft drawn in favour of the Comptroller, UAS, Bengaluru and scanned copy should be uploaded to the e-tender (KEONICS). Original EMD should be sent to the Stores Purchase Officer, UAS, Central Stores, Hebbal, Bengaluru-24 along with supporting documents. Tenders without the EMD will be rejected. (Note: Cash/Cheque will not be considered)

Tender will remain valid for 90 days (From the date of Opening). The Contractor/Supplier submitting a tender and depositing the Earnest Money shall be deemed to have undertaken to keep the tender open for acceptance for the full period of 90 days and will not have the any right to withdraw the same before the expiry of the said date. If the University requires extension of validity, the supplier may have to agree for it. Successful Tenderer should deposit a sum equal to 5% of the total value of the purchase order as Security Deposit, in addition to the Earnest Money Deposit.

This Security Deposit is to be furnished in the form of the Bank Guarantee drawn in favour of the Comptroller, UAS, Bengaluru -65 within 10 days of the receipt of the Purchase Order as per the format (Section XI of KG-1 & KG-2). In case of Imported equipments the Security Deposit & contract form should be furnished before sending the Wire Transfer. The Security Deposit will be returned after the expiry of the Guarantee period along with the EMD. No payment will be made in advance or part through Bank in respect of the Supplies of the Local Items (Non Imported).

Only in case of Imported equipments, Wire transfer will be made through our Bank in favour of the successful Tenderer or Demand Draft will be sent to the Principal in case of advance payment after obtaining the Order Confirmation-cum-Proforma Invoice from the Supplier.

The successful Tenderer shall execute an Contract Form within 10 days from the date of receipt of Purchase Order on a Stamp Paper of Rs. 200/- agreeing to the conditions of supply. FORMAT OF THE CONTRACT FORM IS ALSO PUBLISHED IN THE WEBSITE. If the equipments/items supplied are not according to the specification, the supply order will be cancelled and the supplies will be rejected and intimation of rejection will be sent, such rejected items should be taken back by the firm at their cost and the firm will be black listed.

**Liquidated Damages:**

If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10% of the Contract Price. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 18 of KG-1& KG-2

The EMD and security Deposit are liable to be forfeited as liquidated damages in the event of any evasion, refusal or delay on his/her part in signing the contract form. The other Terms & Conditions are as stipulated in KG-1& KG-2

The UAS/B does not bind itself to accept the lowest bidder and this University reserves the right to accept or reject any of the Tender or all the Tenders without assigning the reasons. Non Compliance by the Tenderer to any of these conditions will entitle for forfeiture of Security Deposit and Earnest Money Deposit. In case of any dispute arising out of this contract, the decision of the Estate Officer is final and binding on the Tenderer. Conditions of this Tender shall carefully be studied by the Tenderer before filling the Tender rates. No claim shall be entertained afterwards. The Court at Bengaluru will have jurisdiction to entertain any case arising out of this tender. Excise duty/Customs Duty is exempted. Exemption Certificates will be issued wherever necessary.

The Tenderer should submit the FOLLOWING details of the firm along with the requisition for Tender Document.

- 1) Firm Registration/Incorporation Certificate/TIN/VAT/CST/PAN/Import Export Code Certificate (IEC)
- 2) For Sl. No. 1, 4 & 8, the State Govt. of Karnataka approved empanelled vendors are eligible to participate in the tender.

ESTATE OFFICER

Encl: Detailed Schedule

Place:

Date :

Signature and the Address/Seal of the Tenderer  
in Token acceptance of the Terms & conditions of this Tender.

FORMAT FOR CONTRACT FORM (TO BE FURNISHED ON A STAMP PAPER OF Rs. 200.00)

SECTION X: CONTRACT FORM

THIS AGREEMENT made the .....day of....., 20... Between the Estate Officer, UAS, GKVK, Bengaluru-65 (Name of purchaser) of Bengaluru, India (Country of Purchaser) (hereinafter called "the Purchaser") of the one part and ..... (Name of Supplier) of ..... (City and Country of Supplier) (hereinafter called "the Supplier") of the other part :

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz., ..... (Brief Description of Goods and Services) and has accepted a tender 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 Tender Form and the Price Schedule submitted by the Tenderer;
  - (b) the Schedule of Requirements;
  - (c) the Technical Specifications;
  - (d) the General Conditions of Contract;
  - (e) the Special Conditions of Contract; and
  - (f) the Purchaser's Notification of Award.
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.

Brief particulars of the goods and services which shall be supplied/provided by the Supplier are as under:

SL. NO.	BRIEF DESCRIPTION OF GOODS & SERVICES	QUANTITY TO BE SUPPLIED	UNIT PRICE	TOTAL PRICE	DELIVERY TERMS

TOTAL VALUE:

DELIVERY SCHEDULE:

----2

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.

Signed, Sealed and Delivered by the said .....  
(For the Purchaser) in the presence of:.....

Signed, Sealed and Delivered by the  
said ..... (For the Supplier) in the presence  
of:.....

NOTE: This Contract Form should be filled in complete Form and should be submitted with in 10 days from the receipt of the Purchase Order along with Bank Guarantee.

SECTION XI

FORMAT OF PERFORMANCE SECURITY FORM (BANK GUARANTEE)

To:

The Comptroller,  
UAS, GKVK, Bengaluru-65.

WHEREAS ..... (Name of Supplier) herein after called "the Supplier" has undertaken , in pursuance of Contract No..... dated,..... 20.... to supply.....(Description of Goods and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of ..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors

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

Date.....20....

Address:.....

.....  
.....