

DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH 2011-12

TENDER FORM FOR PURCHASE OF LAB EQUIPMENTS

Centre of Excellence for Citrus

Horticulture Section

COLLEGE OF AGRICULTURE, NAGPUR

TENDER FORM FOR SUPPLY OF LAB EQUIPMENTS Horticulture Section, COLLEGE OF AGRICULTURE, NAGPUR

	COLLEGE OF AGRICULTURE, NAGPUR
Нс	ne Principal Investigator & Professor, Orticulture Section, College of Agriculture, Organical Section of Agriculture, Organical Section of Agriculture, Organical Section of Agriculture, Organical Section of Agriculture,
De	ear Sir,
1.	In response to the tender notice published in the daily newspaper
	dated th
	I/We submit herewith the tender form for providing Lab equipments.
2.	I/We have thoroughly examined and understood the General and specified terms and
	conditions of the tender form and I/We agree to abide by them in toto and in
	testimony I had signed the declaration and undertaking.
3.	I/We agreed to provide the Lab equipments and accordingly have quoted the rates
	inclusive of all taxes, freight, etc as given in Appendix-II.
4.	I/We shall be bound by communication of acceptance of the offer, dispatched within
	prescribed time.
5.	I/We accept that the right to accept or reject whole or part of the tender without
	assigning any reason is reserved with the Professor of Horticulture, College of
	Agriculture, Nagpur. The decision of the Professor of Horticulture will be final and
	shall be binding on me/us.
6.	A Demand Draft (D.D.) of EMD for providing Lab equipments payable at Nagpur
	bearing No & dated the 2011 in favour
	of the Professor of Horticulture, College of Agri., Nagpur is enclosed herewith.
7.	I/We agree to provide Lab equipments as per the specifications of the final orders for
	the period specified in special conditions of the concerned activity.
8.	As per the terms and conditions, we are submitting our offer in two envelopes. The

quoted by me/us.

documents as per $\underline{\mathsf{Appendix}} - \underline{\mathsf{I}}$ are enclosed in envelop no. 1. (Technical envelope) along with DD of EMD. The envelope no.-2, (Commercial envelope) contains rates

9.	I/We also agree that Professor of Horticulture has full rights to open/consider the
	commercial envelope only, if Professor of Horticulture is satisfied with contents in
	Technical envelope. The decision of the Professor of Horticulture regarding this will
	be final and binding on me/us.

- 10. I/We hereby declare that the entries made in this tender form and enclosed draft of agree on apex are binding for me/us. To facilitate checking and as a step for ensuing that all documents are enclosed. I have numbered all documents and attested copies. As provided in this tender I have filled relevant entries in the checklist provided along-with this form & same is enclosed in Technical envelope.
- **11**. Committee will open both the envelopes simultaneously but if the documents and EMD are not as per the terms and conditions then offer will not be considered.

The following documents duly filled in and signed, are enclosed along-with the tender.

Enclosures: 1) Envelop No. 1 (Appendix-I Part-I,II, III, along with Checklist and declaration)

2) Envelop No. 2 (Appendix II) along with the DD of EMD of Rs. 5,000/-.

Place		Yours faithfully,
Date		
		Name and Signature of the Tenderer/Contractor
	Phone No	Mob

Paste recent passport size photograph with signature

Appendix – I (Part-I)

(This should be enclosed in envelope No. 1)

CHECKLIST MUST BE FILLED BY THE TENDERER

The documents enclosed with tender form are as listed below. Any omission makes the tender liable for rejection. Before sealing the tender please check up each item and score at the appropriate place with YES or NO. You must also quote the relevant page number. You may attach other information also but state in the list after numbering the same pages.

Sr. No.	Details	Whether Attached	Page No.
1	D. D. of E. M.D.	Yes / No	
2	Company profile, Information booklet if any	Yes / No	
3	Documents in support to reveal capacity to supply the material	Yes / No	
4	Identity Card and address proof	Yes / No	
5	Envelop 1 (Appendix – I, Part I, II, III and IV)	Yes/No	
6	Envelop 2 (Appendix-II for rate per Lab equipments with specification)	Yes/No	
7	DD of tender form / Xerox copy of receipt of Tender form Rs. 1000/-	Yes/No	

	(Official Seal)
Date:	
Place:	
The above details have been checked and found correct.	

Signature of Tenderer

Appendix – I (Part –II) "DECLARATION OF THE TENDERER"

1)	That I / We	am / are the authorized
	nominee(s) of the firm	hereby submit tender to the
	University for the supply of Lab equipments to	Horticulture Section, College of
	Agriculture, Nagpur under Dr.P.D.K.V. Akola.	
2)	I am to state that the information provided in the	tender form is true and correct
3)	I / We may be punished as per law for any wro	ng information, misleading facts
	provided in the tender form besides rejection of m	ny / our tender.
4)	In case of any dispute, the Jurisdiction will be Nagp	our only.
5)	I / We have carefully read all the general and spe	cific terms and conditions of the
	tender and I solemnly declare that the same are a	acceptable to me/us and binding
	on me/us.	
Place:	_	Signature of Tenderer:
Date:		
Name o	of Tenderer:	
Capacit	y in which signed :	
With se	Iress of the Tenderer : ral & stamp : Identity card Xerox)	
Phone I		
Mobile		

APPENDIX I (PART – III)

Terms and Conditions for Tenderers for providing Lab equipments

A. GENERAL

- a) Sealed Tenders are invited from different firms/ Manufacturers/ suppliers bid system to supply Lab equipments. Tender form will be available on working day on payment of Rs. 1000/- in cash in the office of Professor of Horticulture, College of Agriculture, Nagpur.
- 2. The tender form will be accepted during working hours on any working day and latest upto 1 p.m. on 13.02.2012 at C/o Professor of Horticulture, College of Agriculture, Nagpur and will be opened on the same day (if possible) at 3.00 p.m. in the o/o Professor of Horticulture in presence of members of Tender Committee and intending bidders who desires to attend. Only bidder or his representative will be allowed to remain present on production of Identity Card.
- **3.** Tenders received late will not be considered. In case tenders are sent by Registered post, it shall be the responsibility of intending Tenderer to ensure that they are received before closing hours.
- 4. Tenderer (s) must sign with seal on each page failing which College/University may reject tender in toto.
- **5.** The rates submission on PTF (Plain Tender form) costing Rs. 1000/- is mandatory and PTF should be purchased in the name of such firm who is expected to use it. Otherwise his tender form will be rejected.
- **6.** If any dispute arises in this regard, then Tenderer can submit his appeal before Grievance Committee. The decision of Professor of Horticulture will be final and binding on Tenderers.
- **7. (a)** The Tenderer should provide the following documents in Technical envelope with superscription "TENDER FOR SUPPLY OF LAB EQUIPMENTS. D. D. of E. M. D. Rs. 5,000/- (Rs Five thousand only) of Nationalised/Scheduled Bank payable at Nagpur.

The E.M.D. should be in the form of Demand Draft payable at Nagpur and should be drawn on any Nationalised/Scheduled Bank. It should be in favour of Professor of Horticulture, College of Agriculture, Nagpur. No interest shall be paid on EMD.

- **7(b)** Tenderer shall have to produce the certificate of Manufacture or dealership should be attached with document of envelope No.1.
- 8. The Tenderer must submit Appendix II in commercial envelope with superscription of the material. Envelop 1 and 2 should be enclosed in third Envelope with the same superscription.
- **9.** A Tenderer will not be permitted to withdraw or modify or amend the contents of the tender once submitted.
- **10.** In case of poor response from the tenderers, the decision of Professor of Horticulture will be final.
- 11. The tender form without E.M.D. will not be considered at all.
- 12. The EMD amount of the bidder will be retained till the finalization of activity.
- **13.** The Tenderer will be informed about the acceptance, if his/her tender is approved by the competent authority.
- 14. The Specimen of "Agreement Bond" will be provided along with office order to the tenderers whose rates are accepted by the Competent authority. The Tenderer shall have to execute agreement in the prescribed form on Government Court Fee stamp paper costing to Rs. 100/- which should be submitted to this office within 7 days from the date of issue of order. The agreement received with seal and signature of Tenderers will become Legal Agreement between the Tenderers and the University, which will be binding on both parties.
- **15.** This contract will be governed as per terms and conditions mentioned in the Agreement. Delay in execution within the prescribed time limit, making of facilities not upto the standard specification, and or non-observance or non-acceptance of these terms and conditions by the Tenderers, shall constitute **breach of contract** and the EMD deposited by the tenderer shall be forfeited by the Professor of Horticulture.
- **16.** The firm who make any undue effort to bring the pressure from outside or from any University authority will be liable for outright rejection. AND WILL BE BLACKLISTED FOR EVER.
- 17. The Professor of Horticulture reserves the right to accept or reject any or all the offers without assigning any reason.
- **18.** The terms of the supply of the material within one month from the date of issue of the supply order and F.O.R. at Horticulture Section, College of Agriculture, Nagpur.
- 19. On the Basis of Technical feasibility, tender will be accepted.

Appendix – I (Part –IV) "DECLARATION OF THE TENDERER"

That I / We	$_{}$ am / are the authorized
nominee(s) of the fi	rm hereby submit tender to the University
to supply Lab equip	ments. I am to state that the information provided in the
tender form is true a	nd correct
	shed as per law for any wrong information, misleading fact
In case of any dispute	e, the Jurisdiction will be Nagpur only.
	y read all terms and conditions of the tender and I solemnly e are acceptable to me/us and binding on me/us.
	Signature of Tenderer:
of Tenderer	:
ty in which signed	:
dress of the Tenderer eal & stamp :	:
n Identity card Xerox)	:
No.	:
e No.	·
	nominee(s) of the fine to supply Lab equipontender form is true and I / We may be punish provided in the tender In case of any dispute I / We have carefully declare that the same of Tenderer ty in which signed dress of the Tenderer eal & stamp: In Identity card Xerox) No.

(This should be enclosed in envelope No. 2) Appendix —II

TENDER FOR THE SUPPLY OF LAB EQUIPMENTS

A. TENDER COST

No. Equipment & Make Automatic Nitrogen Analyzer Automatic Nitrogen Analyzer Automatic Automatic Make Automatic Automatic Macro Block Digestion System (ISO 9001:2008 Certified) A. Automatic Macro Block Digestion System Superior Automatic Automatic Superior Automatic System Superior System S	Sr.	Name of	Specifications	Unit	Cost
Nitrogen Analyzer System Superior Automatic Macro Block Digestion System Superior Automatic Auto sequencing Twenty Place PC Compatible Macro Block Digestion System (Suitable for plants, soils, water, food & feed, Fertilizers & pesticides samples). Automatic 20 Place Microprocessor based digestion system, Aluminium Block 250ml capacity with temperature controller. Temperature Control Range: Room temperature to 450° C, Casted Aluminium Alloy Heaters, Power: 4800 W,20 Digestion Tubes (Macro) 250 ml, Exhaust Manifold System with teflon adaptors, easy autofix spring clamps, Viton hose for diacid and triacid digestion. Inbuilt digital integrated timer. PC controlled Auto Sequencing features, Microprocessor Allows 25 intelligent memory programs, 12 desirable sequence steps of time /temp. domain, 300 memory segments, Bright Digital Two line LCD Display, Auto alarm for user's attention, Auto power off mode on completion of digestion, Direct USB port for PC/Laptop connectivity with software, Live Schematic process flow feature, Graphical representation of time and temperature gradient, KEL Flow Assembly Suction filter pump for fume removal, Electrical Requirement: 220V/50Hz Ac mains. B. Automatic Distillation System Fully Auto Run completely Programmable Autoseqencing Microprocessor based PC Compatible Touch Screen Distillation System with in-built software with 11 Programmable steps and 100 Predefinable User Storage Auto Sequence Programmes , User friendly large Colour Touch Screen - TFT LCD Display (3.5°),1024 factory designable screens inclusive	No.		•	required	
Nitrogen Analyzer System Superior Automatic Macro Block Digestion System Superior Automatic Auto sequencing Twenty Place PC Compatible Macro Block Digestion System (Suitable for plants, soils, water, food & feed, Fertilizers & pesticides samples). Automatic 20 Place Microprocessor based digestion system, Aluminium Block 250ml capacity with temperature controller. Temperature Control Range: Room temperature to 450° C, Casted Aluminium Alloy Heaters, Power: 4800 W,20 Digestion Tubes (Macro) 250 ml, Exhaust Manifold System with teflon adaptors, easy autofix spring clamps, Viton hose for diacid and triacid digestion. Inbuilt digital integrated timer. PC controlled Auto Sequencing features, Microprocessor Allows 25 intelligent memory programs, 12 desirable sequence steps of time /temp. domain, 300 memory segments, Bright Digital Two line LCD Display, Auto alarm for user's attention, Auto power off mode on completion of digestion, Direct USB port for PC/Laptop connectivity with software, Live Schematic process flow feature, Graphical representation of time and temperature gradient, KEL Flow Assembly Suction filter pump for fume removal, Electrical Requirement: 220V/50Hz Ac mains. B. Automatic Distillation System Fully Auto Run completely Programmable Autoseqencing Microprocessor based PC Compatible Touch Screen Distillation System with in-built software with 11 Programmable steps and 100 Predefinable User Storage Auto Sequence Programmes , User friendly large Colour Touch Screen - TFT LCD Display (3.5°),1024 factory designable screens inclusive	1		Automatic Nitrogen/ Protein Estimation	One	
Superior Automatic Macro Block Digestion System Superior Automatic Auto sequencing Twenty Place PC Compatible Macro Block Digestion System (Suitable for plants, soils, water, food & feed, Fertilizers & pesticides samples). Automatic 20 Place Microprocessor based digestion system. Aluminium Block 250ml capacity with temperature controller. Temperature Control Range: Room temperature to 450 ° C, Casted Aluminium Alloy Heaters, Power: 4800 W,20 Digestion Tubes (Macro) 250 ml, Exhaust Manifold System with teflon adaptors, easy autofix spring clamps, Viton hose for diacid and triacid digestion. Inbuilt digital integrated timer, PC controlled Auto Sequencing features, Microprocessor Allows 25 intelligent memory programs, 12 desirable sequence steps of time /temp. domain, 300 memory segments, Bright Digital Two line LCD Display, Auto alarm for user's attention, Auto power off mode on completion of digestion, Direct USB port for PC/Laptop connectivity with software. Live Schematic process flow feature, Graphical representation of time and temperature gradient, KEL Flow Assembly Suction filter pump for fume removal, Electrical Requirement: 220V/50Hz Acmains. B. Automatic Distillation System Fully Auto Run completely Programmable Autoseqencing Microprocessor based PC Compatible Touch Screen Distillation System with in-built software with 11 Programmable steps and 100 Predefinable User Storage Auto Sequence Programmes, User friendly large Colour Touch Screen - TFT LCD Display (3.5°), 1024 factory designable screens inclusive				0110	
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Colour Touch Screen - TFT LCD Display (3.5"),1024 factory designable screens inclusive					
of 256 images, 100 predefinable auto			(3.5"),1024 factory designable screens inclusive		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
sequencing user storage programmes (Standard					
/ Customizable methods), Auto and Manual					
mode of Operation, Auto calculation of results,					
Auto sequencing of 11 intelligent programmable					
steps(Boric acid, Dilution, Dilution Delay,					
Kmno4 Addition, reaction delay time, alkali addition, reaction delay time for neutralization,					
steam injection, residue delay time, residue					
removal, Auto titrator connectivity with delay					
time feature), High resolution of 320 x 240 pixels,					
Flow diagram display of auto sequencing steps,					

SD card storage, Data logging, Data table Export to Excel, Auto error indication on error diagnosis, Upgradable Ethernet connectivity, Auto program termination and deactivation of system when system is not in stand by mode and tube not in place, Remote key operation feature for On / OFF, RS 232 interface for PC connectivity with USB converter port, High grade Stainless steel non corrosive steam Generator, Fully Automatic water level monitoring with centrifugal refilling pump & Perilstatic pump for reagents addition. Auto reagent level sensor with indication for Alkali, Kmno4 and Boric acid, Adjustable steam power-10 to 100%, Auto online water saving, Auto aspiration of receiver residue, Autotitrator connectivity, Software driven, Auto intelligent residue waste drains, auto steam power adjustment with microbrilliant distillate control, Auto start and auto stop mechanism, Software compatible with CLASSIC DX VA TS for calculation and reporting of results with builtin formulae.

Interconnectivity cable to operate system through PC or Laptop, Provision for direct calculation of results in LCD with user programmable formulae for direct reading of protein / Nitrogen / Aviailable Nitrogen etc. Ditect online printer connectivity to distillation system, Includes Data Processing system of following configuration: dual core, 2 GB RAM, 250 GB HDD, DVD Writer, Wifi, etc. Electrical Requirement - 220V/50Hz

C. Scrubber System:

Fully Automatic Four Stage Acid Neutralizer Scrubber with micro intelligent micro processor based with digital display of time

Stage: 1 - Fume trap condensation, Stage: 2 - Neutralization in water, Stage: 3 - Neutralization in Alkali,

Stage: 4 -Dissolution of air free of acid fumes in raw tank water, Digital display of set time and actual time. (Range – 0-99.59 hrs.), Microprocessor based brilliant auto waste disposal with auto drain of tank water after every three consecutive operations. Incorporates LED indication of Drain cycles, low level indication and high level indication, Fill error displays in case inlet water gets choked with auto switch off of system with alarm, Auto shut down of recirculation pump during water filling in the tank, Non corrosive centrifugal suction pump with inbuilt self priming feed pump for water recirculation.

Non corrosive submergible pump for drain, Non corrosive submergible pump for condensor water circulation, Alkali container capacity: 2 litres, Water container capacity: 2 litres, Fibre Reinforced plastic Tank of capacity 10 litres, Electrical requirement: 220v/50Hz

		O Defitation 1 1 11 15 1	ı	
		C. Refrigerated water cooling System:		
		:Refrigerated Water Cooling Circulating		
		system with digital display of temperature,		
		Refrigerated water circulating system with built		
		in compressor and recirculation, Temperature		
		Indication: Digital display, Compressor		
		Capacity -3/8 HP Kirloskar compressor, Fan-		
		10Watta, 1450 rpm, SS Tank capacity: 10 Liters,		
		Recirculation Pump: Submergible pump Over		
		load protection, Microprocessor based PID		
		Temp. Controller, Temperature Range: 10°Cto		
		20°C, MS powder coating housing, Nipples for		
		inlet, outlet & overflow Drain -1/2 an inch ball		
		valve.: 220v/50Hz Mains.		
		D. Titration System:		
		: Superior Automatic pH based Titration System		
		with Auto End Point Detection Titration with		
		Software. High Precision Intelligence System.		
1		User Friendly Menu Driven Versions. Display		
		help guide to select respective functions.		
		Complete dosing unit with tubes/screw		
1		threads titration tip holder and electrode		
1		stand rod, etc. Remote Auto control element		
1		mouse for additional manual titration. Auto		
		Stirrer with electrical contacts, High Precision		
		glass cylinder made of borosilicate. virtual Play		
		free spindle system for accurate dosing and		
		titration results. Large Background Lighting		
		Display: Matrix LCD with 64 x 128 pixel and		
		background illumination, contrast adjustable		
		using knurled knob Temperature Sensor - Pt		
		1000, PH range - 0 to 14 PH, Dialogue mode		
		Keyboard Display Indication for active keys		
		help menu for further steps, Automatic pH		
		end point determination., Auto scroll to		
		select end point & indicators., Auto find		
		equivalence point titration, Automatic mV		
		titrations, 10 internally stored methods for		
		various types of titrations., Automatic end		
		point titration to a defined end point., Several		
		Titration Dosing speeds user desired		
		presentable, Incremental dosing with waiting		
		time with inbuilt auto timer, Two bidirectional		
		RS 232 interface, Chart Software Includes PC		
		connectivity cable, documentation through		
		PC, Graphical representation of titration		
		curves, Processing of titration data with		
		necessary formulas. Electrical Connections:		
		220V/50Hz AC Mains.		
2	Spectrophotome	Wave length: 190nm – 1100nm	One	
	tre UV-Visble	Special Bandwidth: 0.5, 1.0,2.0,& 5.0nm		
	(PC controlled)	Resolution: 0.5nm		
		Stray light : <0.1%T(220nm, Nal; 340NaNo2),		
1		>=2.0Abs(KCl,200nm)		
		Wavelength accuracy: 0.3nm		
		Wavelength Reproducibility:0.2nm		
		Photometric system: Double beam monitoring		
		system,		
		Photometric method: Transimittance,		
		Absorbance, energy and concentration,		
		Photometric range: -0.3 -3.00Abs.		
<u> </u>	1	1 Hotometre range. 0.0 0.00mbs.		

		Photometric accuracy: 0.002-0.004 Abs, 0.3%T		
		Display: 99999999		
		Photometric Noise: 0.001Abs(500nm, 0Abs, 2nm		
		special bandwidth.)		
		Scanning speed: 1400nm/min.		
		Baseline flatness: >0.0015Abs(190-1100nm)		
		Baseline stability: 0.008Abs/h (500nm,0Abs		
		2nmSpectral bandwidth, 2hrs warm up)		
		Measurements:		
		Result printout: Printing of measured data by		
		using any printer with parallel port connection available,		
		Mainframe: Compact and standalone		
		spectrophotometer mainframe,		
		Light source: Socket Deuterium lamp and		
		tungsten halogen lamp		
		Detector: Double beam		
		Sample chamber: 2 cel holder		
		Display: LCD320X240 dot matrix		
		Key pad: touch soft key.		
		Size: 22"X16"X10"		
		Weight: 55Lb		
		Along with all essential accessories		
		Optional: Peltier Kinetic Test System		
		Optional: Sipper Flow Through System		
3	FLAME	Optical Detection of flame and fail safe operation	One	
	PHOTOMETER	Air pressure switch to extinguish flame in		
		absence of air		
		Auto ignition. Information:		
		- Lineariser Module : 478-29-800a		
		- Missing 589nm Filter (standard)		
		- Missing burner glass tube		
4	Atomic	PC controlled double beam Atomic Absorption	One	
	Absorption	Spectrophotometer with Windows based software		
	Spectrophotome	for full control of AAS and accessories like		
	ter-	Hydride Generator, Graphite Furnace etc.		
		Double beam optics with background correction		
		and flame emission capability. Asymmetric		
		modulation with 2:1 sample-to-reference ratio for		
		noise reduction. All-reflective system with		
		quartz overcoating on mirrors. Sealed against		
		dust and vapour.		
		Ebert-Fastie design Monochromator with more		
		than 333mm focal length and 175-900 nm wavelength range. 1800 lines/mm holographic		
		grating with dual blazed profile. Automatic		
		wavelength selection and peaking. Continuously		
		adjustable slit widths between 0.1 and 2.0 nm		
		in 0.1nm increments. Reduced height for		
		furnace work with all slit widths. Automatic		
		setting of slit width and height. Automatic		
1		wavelength scanning.		
		wavelength scanning.		
		wavelength scanning. Detector wide range multialkali photomultiplier		
		wavelength scanning. Detector wide range multialkali photomultiplier tube. Capability to analyze eight elements at a time. Elements to be analyzed include Iron,		
		wavelength scanning. Detector wide range multialkali photomultiplier tube. Capability to analyze eight elements at a time. Elements to be analyzed include Iron, Manganese, Copper, Zinc , Silica, Selenium,		
		wavelength scanning. Detector wide range multialkali photomultiplier tube. Capability to analyze eight elements at a time. Elements to be analyzed include Iron, Manganese, Copper, Zinc , Silica, Selenium, Arsenic, Mercury, Lead, Boron, Calcium,		
		wavelength scanning. Detector wide range multialkali photomultiplier tube. Capability to analyze eight elements at a time. Elements to be analyzed include Iron, Manganese, Copper, Zinc , Silica, Selenium,		

		automatically warm up.		
		Hyper-pulse background corrector taking		
		minimum 200 (50 Hz)or 240 (60 Hz) sample		
		readings per second for correction of fast		
		background peaks. High intensity, long life		
		deuterium arc lamp to provide 175-425nm		
		correction range. Correction to 2.5 total		
		absorbance.		
		Automatic setting of flame type and gas from		
		stored conditions. Programmed ignition and		
		shutdown sequences. Automatic change of flame		
		conditions during automatic multi element		
		analysis. May be programmed to automatically		
		extinguish the flame at the end of an analysis.		
		Safety interlocks on air, acetylene and nitrous		
		oxide pressure, burner presence, burner type,		
		liquid trap level, presence of nebulizer and		
		pressure relief bung, oxidant flow, flame		
		condition and mains power. Ignition is prevented		
		or flame is shut down if fault is detected. Screen		
		to display interlock status.		
		Flame Atomization System with Pre-mix design		
		with solid inert polymer mixing chamber. All-		
		titanium burner construction Nebulizer with		
		platinum-iridium capillary and titanium venturi		
		for resistance to acid attacks. Adjustable sample		
		uptake rate with locking mechanism. Inert		
		impact bead. Interlocked nebulizer bung		
		.Integral liquid trap with liquid level interlock.		
		Performance Guarantee Greater than 0.8 abs for		
		5 mg/L copper solution with an RSD of less than		
		0.45% on the same measurement.		
		Hydride Generator		
		Automatic continuous flow hydride generation		
		system for the analysis of the hydride forming		
		elements like arsenic ,selenium etc at parts per		
		billion concentration level. This system should		
		also be able to analyze mercury by the cold vapor		
		technique at parts per billion concentration.		
		Local Items		
		Air compressor, fume hood , Gas cylinders with		
		regulators for acetylene, nitrous oxide, Argon etc.		
		Desktop latest PC with color laser printer.		
		All accessories required for successful		
		installation of the instrument.		
5	Hot Air Oven-	Double walled construction inner chamber made	One	
		of st. Steel and exterior G. I. sheets powder		
		coated. The gap between the two walls filled with		
		glass wool insulation.		
		Temperature controlled by thermostat. Supplied		
		with G. I. Wiremesh shelves.		
		Temperature range : 50°c to 250°c accuracy		
		±2°c, chamber size: 24" x 24" x 36" and no of		
		shelves: 5.	_	
6	B.O.D. Incubator	A microprocessor based auto-tuning	One	
		type Japanese make PID controller		
		with CE mark.		
		CFC Free Refrigeration System.		
		Printer Interface Facility and PC communication		
		with software.		
		A multiple point (4) temperature scanner with PC		

	I		1
		and printer interface facility.	
		Available in STD and GMP model with volume of	
		325 ltr.	
		Temperature Range- 5 ° C to 60 ° C	
		Temperature Accuracy- ± 0.2 ° C	
		Model- TB 325 S/G	
		Capacity (CU.FT/Ltrs.)- 12/325	
		Max. no. of Trays -6	
7	Fully Automatic	1. Controller with time and temperature	One
	Autoclave-	programmable by user.	
		2. A backlit alphanumeric two line 32 character	
		LCD display.	
		3. Low water level, sensor open/short alarms	
		and cut off.	
		4. Lid is fitted with pressure gauge, safety valve,	
		safety fusible plug (all except #7423 & #7433)	
		manual exhaust valve, vacuum breaker cum	
		purge valve and quick release coupling for online	
		pressure calibration check.	
		5. Drain valve for easy draining and cleaning,	
		Moulded rubber Gasket and Stainless Steel	
		carrier(s) along with heater cover stand.	
8	Orbital Shaking	Inner Chamber S.S. 304 & Outer chamber M.S. po	volee
	Machine	coated with Plexi glass inner door Variable speed f	rom
		20 RPM to 250 RPM	
		Digital display of speed with preset facility	
		Flask capacity: 36	
9	Centrifuge	Bench Top high speed lab centrifuge with digital	One
	Machine High	speedometer, digital timer in the range of 0-59	
	Speed	minutes & Speed regulator. Maximum speed	
		20000 (without load). K-248 model works on 220	
		volts 50Hz A.C.	
		See through acrylic lid.	
		Rotor Head are manufactured from speed grade	
		aluminium which can withstand high speed.	
		Speed is controlled through heavy duty variac.	
		Dynamic breaks.	
		Angle Rotor Head Capacity- 24 x 15 ml.	
10	Water	Out put: 10lit/hrs	One
	Distillation Unit	Conductivity: 1.5-2.00X 10.6S/cm	
	- Glass	pH: 5.5 -6.0	
		Distilate quality : Pyrogen free	
		Electrical power: 220/240 Volts, 50-60 Hz,	
		Single phase, 3KW Silica heater	
		Standard flask: Double stage, capacity-10ltr	
		Cooling water required: 1-21 /min	
		Mini Pr. : 3psi	
		Weight: 16 Kg(app)	
11	PCR Unit	1)Gradiant Thermal Cycler	One
		Specifications : QB-96 Standard Thermal Cycler	
		Block Module	
		Satellite Unit with Thermal block for 96x0.2ml	
		tubes	
		Supplied with Desktop PC + Software	
		The QB-96 is a modular high performance	
		Thermal Cycler.	
		The Satellite Module is controlled through an	
		intuitive user friendly Software loaded on a PC	
		It is a flexible network, expandable in single	
		•	

		Thermal Cycler increments and designed to fulfil		
		the needs of the most demanding Life Science		
		laboratories		
		Technical Details		
		Temperature range of block, °C 4 to 99 with tube		
		and microplate control algorithms		
		Sample accuracy, °C ± 0.4 (20-99°C) ± 1 (4-20°C)		
		Sample homogeneity, °C ± 0.4 after 15 seconds		
		(30-99°C)		
		Sample volume range, µl 5 to 100		
		Ramping rate, cooling, up to 3.5 °C per second		
		Ramping rate, heating, up to 5 °C per second		
		Sample overshoot, °C < 1		
		Thermal Block:		
		Block materials Nickel coated aluminium blocks		
		with four rapid response		
		temperature sensors		
		Traceability Calibration using NIST traceable		
		standards		
		Block supplied 96 x 0.2 ml		
		User Interfaces:		
		User Interfaces: Desktop PC & PCQB Software		
		Communication interfaces 1 x USB		
		Pressurised heated lid		
		Lid temperature 115°C		
		Lid pressure Low (tube) or high (micro plate)		
		Power and dimensions		
		Electronic power supply 100V-240V		
		Dimensions (w x d x h), mm 260x280x200		
		Weight, 9 kg		
		2) Tips for pipette		
		3) Research Pipette		
		4)Minispin Centrifuge(Tinifuge)		
		Specification:- speed: 6000/10000rpm		
		fixed		
		Operation temp:- 0-40° C		
		5)UV Transilluminator		
		World first unique drawer-based		
		transilluminator for workstation personalization.		
		Interchangeable UV and White light drawers Long life filters and lamps		
		Built-in mechanism for 100% UV protection		
		Superior reliability.		
12	Vertical Gel	Duel plate maxi vertical gel unit ideal for	One	
12	Electrophoresis	HANDCAST GELS, includes gel running module		
	Unit	and cooled gel tank, with build in cooling coil		
		and quick fit tubing, plus lid, 2x (20.5x 20 cm)		
		plane glass plates, 2x (20.5x 20 cm) notched		
		glass plates, 4x1 mm spacers, 2x spacer		
		aligners, 1x dummy plate and 2x 1 mm thick 24		
		- wells combs, casting based and 2x silicon		
		seals.		
		Gel Size : 20.5 x 20 cm		
13	Analytical	Analytical Balance	One	
	Balance	Capacity :220 gm		
		Accuracy: minimum 0.1 mg.		
		Calibration build in motorized		
14	Hand	ERMA Japan, Range 0-55, 58-92	One	
L	Refractometer			
15	Laminar Airflow	It provides an ISO Class 5 (Class 100)	One	
		environment within the work area that complies		

	Γ		,	
		with the IEST recommended practices IEST-RP-		
		CC 002.2.		
		*Perforated stainless steel defuser screen		
		protects the mini pleat HEPA filter and		
		maintains uniform air flow, velocity within the		
		work area.		
		*Easy disassembly for access through a small		
		door.		
		*Filters : aluminum framed microbial treated		
		high efficiency particulate air mini- pleat (HEPA)		
		filter, with a minimum efficiency of 99.995 % at		
		0.3 micron.		
		* Prefilter : washable type pleated prefilter FRP		
		body frame PU coated		
		* Construction : models available in all stainless		
		steel 304 construction		
		* Air flow : 90 FPM (0.45 m/s) 10 FPM (0.05		
		m/s) average velocity measured 6 in . (150 mm)		
		from the diffuser screen. Uniformity 20% of		
		average are better.		
		*Noise level : 60 ± 5 DB measured at 1 mt from		
		filter face.		
		* Motor/ Blower Assembly : A godrej make		
		variable split motor mounted on PU coated FRP		
		blowers with black gloss coated aluminium		
		impellers which is spring mouted and		
		dianamically balanced.		
		* Options		
		1. Electric outlet		
		2. Minihelic pressure differential gauge		
		3. ULPA filter		
		Model Size (ft): 4x2		
		External dimensions (inches): 48x35x58		
		(LxWxH) appx. (mm): 1219 x900 x1475		
		Work area dimensions (inches): 48x 24x 22		
		(LxWxH) appx. (mm): 1219 x609 x558		
16	ELISA KIT	Eliza kit for plant (Citrus) virus detection	One	
17	Bottle Washing	Operates on the rotary principles. Upper	One	
	Machine	platform with bottle moves. Stationery washing		
		nozzle manual loading and uploading. Pre-set		
		washing sequences with recirculation		
		arrangements. Two bottle holders in one line for		
		easy loading and unloading. Bottle holders		
		designed to accommodate containers with		
		varying neck diameters. External washing		
		facility. Supplied with two SS tanks (75 lts		
		capacity each) and two SS Monoblock centrifugal		
		pumps, pressure gauges and control panel. SS		
		body to prevent corrosion. One insulated tank		
1		with Electric heaters or steam coils.		

PLACE : DATE :

Signature of Tenderer Name & Full Address

Affidavit/Indemnity Bond

•		equipments at Horticulture Section has been accepted by the llege of Agriculture, Nagpur
I,Mr		Aged,
S/O		R/o(Address)
1 to 9 of the t College of Agri default.	ender or in iculture, Nag	by and fulfill all terms and conditions included from page No. default to forfeit the EMD to the Professor of Horticulture, pur subsequent upon failure in supply of material due to
		at in case of any dispute, the decision of the Professor of culture, Nagpur shall be final and binding on me.
		Signature
Date	_	Full NameAddress
		Ph
		Verification
Verified & sign	ed at Nagpur	on this (the day) (month), 2011
		DEPONENT
I know the depo	onent	
Advocate In presence of 1. Witness;	Signature Name Address	
2. Witness:	Signature Name Address	
Place : Nagpur Date :		Professor of Horticulture College of Agriculture, Nagpur

CENTRE OF EXCELLENCE FOR CITRUS HORTICULTURE SECTION, COLLEGE OF AGRICULTURE, NAGPUR DR. P.D.K.V. AKOLA

SHORT TENDER NOTICE

No.HS/CEC/Tender GE/861/2011

Sealed tenders are invited for purchase of Lab equipments

Tender Form for Purchase of Lab equipments will be available on payment of Rs. 1000/- in cash between 3 to 5 p.m. on working days from the office of the Professor of Horticulture, College of Agriculture, Nagpur from 11.01.2012 to 10.02.2012 or Tender document from website can down load (www.pdkvacn.ac.in) In case of tender documents is downloaded from website in PDF format, the cost of the tender form Rs. 1000/- will be accepted by DD and shall be attached with the offered document, failing which the tender will be summarily rejected. The same tender will be received by 1.00 P.M. till 13.02.2012 and shall be opened at 3.00 P.M. on the same day, if possible.

Fax: 0712-2554820 Ph: 0712-2530685 Professor of Horticulture,
College of Agriculture,
Nagpur

Dated: 9th Jan. 2011

(This should be enclosed in envelope no. 1)

Price Rs. 1000/-		
Tender Sr. No. :		
Issued to :		
Money Receipt No.:	Date	
Signature of the Cashier with office stamp:		