

DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA

*Approved Rate list for the supply of Lab.
Equipments / Instruments upto
31-03-2018 finalized by Central
Purchase Committee, Dr. PDKV, Akola.*

Read: 1) Univ. Order No. GAD/CPC/16-17/1877/2016 dated 15/09/2016.
2) e-Tender No.ADPGI/CPC/e-tender/1474/2016 Dated 28.12.2016
(Tender ID 2016_PDKVA_184520_1)

CIRCULAR

No. ADPGI/CPC/Equip/1370 /2017

Dated 04 / 03 / 2017

Consequent upon the constitution of Central Purchase Committee for Akola zone vide University Order dated 15/09/2016, the Central Purchase Committee headed by Associate Dean, Post Graduate Institute, Akola undertook e-tender process for the Equipments / Instruments for which indents were received. Considering the wide range of items, the committee confined etender procedure to the items of common requirement for the supply of Lab. Equipments / Instruments.

The rates are duly approved by the University on recommendation of the Central Purchase Committee, Dr.PDKV, Akola in r/o of the Lab. Equipments / Instruments as per list enclosed which are valid upto 31.03.2018.

The concerned officers intending to purchase any of the Equipments / Instruments from the approved rate list, will have to follow purchase procedure as per the financial rules of the University & availability of fund.

The rates mentioned in the rate list include ST, VAT, Special Excise, Cess and F.O.R. destination.

The concerned officers intending to purchase any Equipment / Instrument should take security deposit @3% of total cost from the supplier as per rule and procedure. If the job is completed by the party satisfactorily then the amount of Security deposit thereon will be returned after 12 months or the expiry of warrantee period whichever is later from the date of supply.

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The purchaser must provide a copy of supply order to the Tender Coordinator (Equipments / Instruments), Agril. Biotechnology Centre, Dr. PDKV, Akola.

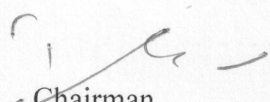
The surprise inspections may be carried out by the Chairman/Tender Coordinator to check quality, quantity and specification of the purchased material.

The details regarding specification should invariably be got mentioned in the supply order and the same should be got entered in the bill so that responsibility of supplier can be fixed in respect of items supplied by them. The purchaser should check the Equipment / Instrument as per specification at the time of putting supply order & delivery. The purchaser should verify whether the specification meets their complete requirement or not, then only supply order should be placed.

The approved rate list for supply of Equipments/instruments is available on University website www.pdkv.ac.in.

The circular is issued with the concurrence of the Comptroller and approval of Hon'ble Vice Chancellor.

Encls: Approved rate list of
Lab. Equipments / Instruments.


Chairman
Central Purchase Committee &
Associate Dean, Post Graduate Institute,
Dr. PDKV, Akola

Copy submitted to:

The Dean(Agri.), Dr. PDKV, Akola, for information.

Copy f.w.c.s. to:

1. The Controlling Officers (All) _____ Dr. PDKV, Akola.
2. The Registrar, Dr. PDKV, Akola, for information.
3. The Comptroller, Dr. PDKV, Akola, for information.
4. The T.S. to Vice Chancellor, Dr. PDKV, Akola for information of Hon'ble Vice Chancellor, Dr. PDKV, Akola.

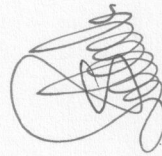
Copy for information and necessary action to:

- 1) The Implementing Officers (All) _____
- 2) The Pay and Accounts officer, Akola/Nagpur.
- 3) The Tender Coordinator (Equipments / Instruments), Agril. Biotechnology Center,
Dr. PDKV, Akola


Chairman
Central Purchase Committee &
Associate Dean, PGI, Dr. PDKV, Akola.

Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola
Approved rate list of Lab. Equipments / Instruments valid till 31.03.2018

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
1.	Vertical Gel Electrophoresis Unit with powerpack	- Dual plate wide format mini vertical gel electrophoresis Unit - Include gel running module, gel tank and casting base - Plate dimension: 20.5 X 10 X .4 cm - Maximum Sample Capacity : 2 X 48 - With extra two sets of casting assembly - With extra two sets of glass plates - With extra two sets of spacers - Compatible power pack for the electrophoresis equipment with specification 10-300 V, 4-500 mA, 90 W	471675.00	M/s. Aakanksha Chemicals, Shiraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com
2.	Horizontal Gel Electrophoresis Unit MAX	- Horizontal electrophoresis unit including buffer chamber assembly, running tray - Casting kit/Running tray/Casting kit with foam gasket of size, 15X 20 cm (W XL) 15 X 15 Cm 15 X 10 cm - Maximum sample capacity : 60 - With extra two sets of casting tray - With extra two combs - Compatible power pack for the electrophoresis equipment with specification 10-300 V, 4-500 mA, 90 W	270821.00	



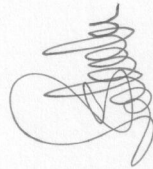
Tender Coordinator
Equipments/ Instruments



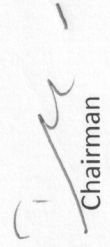
Chairman
Central Purchase Committee

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3.	Horizontal Gel Electrophoresis Unit MAX	• Horizontal electrophoresis unit including buffer chamber assembly, running tray, casting tray, foam gasket 4 pieces, combs 1.5 mm thick) • Gel dimension: 7 x 10 cm (W x L) • Maximum Sample Capacity : 32 • Unit dimension: 24X 7 X 13 cm (L X H X W) • With extra two sets of casting tray • With extra two combs each 8 and 12 wells	98333.00	M/s. Aakanksha Chemicals, Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com
4.	Horizontal Electrophoresis Unit MIDI	• Horizontal electrophoresis unit including buffer chamber assembly, running tray 12.8 X 15 Cm with silicon gasket, combs (1mm, 1.5 mm and 2.0 mm thick) • Gel dimension: 12.8 x 15 Cm (W x L) • Maximum Sample Capacity : 112 • Unit dimension: 20X 32 X 7 cm (W X L X H) • With extra combs (16 cm and 28 cm) • 10-300 V, • 4- 500 mA • 90 W	146160.00	



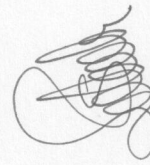
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Equipments/ Instruments



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5.	UV Spectrophotometer	• Photometric System Double beam optics • Spectral Band pass width < 1.0nm • Wavelength Range 190nm to 1100nm • Wavelength Accuracy $\leq \pm 0.3\text{nm}$ • Wavelength Reproducibility $\leq \pm 0.1\text{nm}$ • Wavelength Setting 0.1nm • Wavelength Scanning Speed Max.3000nm/min • Photometric Range -0.5 to 4.0ABS • Photometric Accuracy $\pm 0.004\text{ABS}$ (at 1.0ABS) • Photometric Reproducibility $\pm 0.002\text{ABS}$ • Baseline Flatness $\leq \pm 0.001\text{ABS}$ (200nm to 1100nm) • Noise Level $< 0.001\text{A}$ • Stability $\pm 0.002\text{ A/hr}$ • Light Source Tungsten-halogen lamp and/or deuterium lamp • Lamp Change Wavelength 340nm to 410nm (default 370nm) include auto position system • Monochrome Modified Czerny-Turner type with 1200 lines/mm blazed grating • Detector Silicone photodiode • Power requirement AC 220V, 50/60Hz	486234.00	M/s. Aakanksha Chemicals, Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com



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Equipments/ Instruments



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Approved rate list of Lab. Equipments / Instruments valid till 31.03.2018

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6.	Portable X-ray Fluorescence (PXRF) Spectrometry Model DP 6000	Excitation Range: 4W Rh, Au, or Ta anode (per application) X-ray Tube Analytical exploration - Dual beam fundamental parameter algorithm achieving lowest of detection for exploration samples as well as percent level grade control, Mg, Al Si, K, Ca, S, P, Cl, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, W, Zn, Hg, As, Pb, Bi, Se, Th, U, Rb, Sr, Y, Zr, Mo, Ag, Cd, Sn, Sb, limit optimized for Alloy Mode (P2000A), Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, W, Hf, Ta, Re, Pb, Bi, Zr, Nb, Mo, Pd, Cd, Ag, Sn, Sb Detector Large-Area Silicon Drift Detector Analytical Range : Alloy and Mining: Mg and up for Rh/Ag and Al and up for Ta/Au; Soil: P and higher Weight 1.5 kg (3.25 lbs) without battery Dimensions 260 x 240 x 90 mm (10.25 x 9.5 x 3.5 in.) Environmental Temperature Range -10 °C to 50 °C (14 °F to 122 °F) Processing Electronics 530 MHz CPU with integrated FPU with 128 MB RAM; Proprietary Olympus Digital Pulse Processor (DPP) Power : Rechargeable Li-ion battery; Hot-swap maintains analyzer per during battery charge Data Display 32 bit Color QVGA resolution, Blankview transmissive backlit touch screen; 57 x 73 mm (2.25 x 2.9 in.) Data Storage: 1 GB micro SD (stores ~75,000 readings) Data Transfer : USB, Bluetooth® Standard Accessories - Carrying Case, Li-ion Battery, Electronic User Manual and User Interface Guide and Printed Quick Start Guide , Battery Charger - Mini-USB Cable, 3165 Stainless Steel Calibration Check Reference Coin	2537600.00	IR Technology Services Pvt. Ltd., New Mumbai Address : TTC Industrial Area, Electronic Zone, MIDC, Navi Mumbai 400710 Phone : 022-27688817, 6789 2768 1252 email : sales_bom@irtech.in, sales-newbom@irtech.in



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7.	NPk Digestion System : KEL PLUS Micro Twenty Sample PC Compatible System (100 ml capacity) Model KES 20 R	- Application for digestion plant, soils, fertilizer samples etc. microprocessor based temperature controller (ambient to 450°C). Aluminium alloy heaters for uniform heating and even digestion. Auto fix exhaust manifold system for absolute fume trapping. KEL FLOW suction assembly for pollution free analysis - Twenty Place 250 ml capacity PC Compatible Block Digestion System with all essential accessories - TFT Graphic Touch Screen Display with wireless mouse to operate at a distance of 2 mtrs. - PC software performs Live graphical representation of time /temperature gradient with 70 programs & 12 ramps - Direct USB Port for PC Connectivity with live process view display of various stages with print options, - Remote control module for wireless data monitoring, control and transfer to PC at a distance of 30 feet - Unit should be upgradeable to Data Logger Module	69859.00	M/s. Scientific Corporation, 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012 Phone: 0712-2443431 Email: scientific_corp@bsnl.in scientific112@gmail.com
8.	Automatic Nitrogen Kjeldahl Automatic Nitrogen Distillation System: CLASSIC DX VAT TS(E)	- Auto sequencing Programmable Microprocessor based Distillation with inbuilt software, Colour Touch Screen high resolution TFT LCD Display, - Auto Intelligent run of programmable steps, Addition of Boric Acid, Dilution, KMNO4 Addition for Available Nitrogen, Alkali Addition, Steam Processing, Residue Removal, Process over indication with inbuilt delay time features, Auto Titration Connectivity feature for future upgradation, Aspiration of Receiver Residue. - Facility to program and control distillate volume for determination of available nitrogen - Auto sensing of "NO WATER" condition in condenser & steam generator with alarm & signal to alert user. - Auto deactivation of operation after warning in case of user non availability - Auto reagent Level Sensor with Alarm for Reagents, Stainless steel non corrosive steam Generator	81152.00	

Tender Coordinator

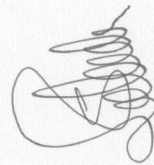
Equipments/ Instruments

Chairman

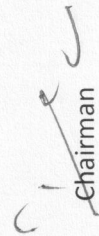
Central Purchase Committee

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9.	Kjeldahl Acid Neutralizer Scrubber	Four Stage Semi Automatic Acid Neutralizer Scrubber (Regular Version) • First stage : Condensation • Second stage : Neutralization in Alkali • Third stage : Neutralization in water • Fourth Stage : Dissolution of air free of acid fumes in raw tank water • Non corrosive centrifugal suction pump with inbuilt self priming feed pump for water recirculation. • Alkali container capacity : 2 litres • Water container capacity : 2 litres • Fibre Reinforced plastic Tank of capacity 10 litres	33823.00	M/s. Scientific Corporation, 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012 Phone: 0712-2443431 Email: scientific_corp@bsnl.in scientific112@gmail.com
10.	KEL PLUS Nitrogen Analyzer Refrigerated Water Cooling	• Refrigerated Water Cooling Circulating System Model : KEL FREEZ (Regular Version)	42562.00	



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11.	2 D Electrophoresis System with Power Pack	• Isoelectric Focusing (IEF) Unit, with built-in 12,000 Volt / 1.5mA power supply and Peltierthermostate cooling plate for excellent heat transfer and electrode contact. • The instrument should be programmable and have RS 232C/USB interface for PC control inclusive of cable. • The working temperature of the instrument should be 18 – 25°C (+/- 1°C). • Flexible first-dimension IEF can be run Six strips up to 24 cm IPG, If 7 cm strips are used 12 strips can be accommodated with the help of another pair of electrodes. • Monitoring of individual strips should be available. • Reusable Sample cup capacity should be upto 240µls. • Electrodes lock into place on strips ensures good contact during run. • Entire protocol can be seen on screen easy to read and edit. • Stores multiple protocols each with multiple steps-flexible programming for precise results. • Instrument should be controlled through LAN remote control and data acquisition possible. • Dimensions not more than 38 x 19 x 27 cm (w x h x d) • The unit will run one or two gels and has the capability of expanding to four gels with the addition of accessory divider plates. • The unit includes a dual gel caster. The unit is having a round contour which allows easy handling, lifting and introducing samples. • Gels can be cast leak-free in the dual gel caster without using tape or agarose. • The unit has a 16 cm separation distance. • The unit should come with the glass plates, spacers 1.5mm & 15 wells comb. • The gel plates are submerged in the lower buffer chamber so both surfaces of each gel are identically cooled (or heated). The buffer can be temperature-controlled via a glass tube heat exchanger. (Continued...)	905887.00	M/s. Aakanksha Chemicals, Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com

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Equipments/ Instruments

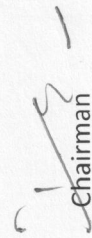
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Central Purchase Committee

Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola
Approved rate list of Lab. Equipments / Instruments valid till 31.03.2018

	• The unit has a safety lid designed to CE, CSA and UL specifications. • When doing 2-D electrophoresis, the gels accept 11 cm or 13 cm Immobilized Dry Strips that were run in the 1st dimension. • Power Supply – • The unit is capable of delivering up to 300 volts, 400 mA and 90 watts. • The unit is able to operate in either constant voltage or current modes. • The unit has an automatic crossover feature to switch between constant current and voltage mode. • The unit has a small footprint (33.5x12.5x28cm) and large handle which makes it easy to transport. • The unit has four sets of safety-recessed high voltage output terminals. • The unit is certified to meet CE, UL and CSA safety standards. • The unit features a large, easy-to-read LCD display.		
12. Western Blotting System	• Electro-blotting system which can transfer protein as well as Nucleic acid from 10x10 cm gel. • Electro-blotting system which can accommodate at least 4 gels cassettes simultaneously. • System must come with asymmetric color –coded cassettes so that they cannot be inserted in wrong direction in any case. • Fibre pads should come with the system so that they can compress the gel against the nitrocellulose membrane for uniform transfer. • System should be having plate-electrodes 12.8cm apart so allows the rapid transfer of gels. • System can be connected to external chiller for cooling by snap-lock connectors which should be provided with the system. • System external dimension should not be more than 20 x22.5x 18.5 cm (WxDxH).	100853.00	M/s. Aakanksha Chemicals, Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email: aakankshachem@rediffmail.com



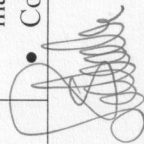
Tender Coordinator
Equipments/ Instruments



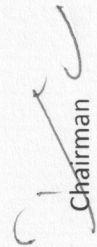
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Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola
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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
13.	Gel Documentation Unit	• Microprocessor based controller • The System should have intelligence to automatically assess the blot, set its best exposure time and also set the best sensitivity setting [bin factor] and then display the image within the defined waiting period. • Scientific grade Ultra Peltier Cooled CCD camera with high speed USB Port resolution of 6 Mega Pixels, True 16-Bit images (up to 65536 grey levels) • It should Capture & Analyze images like; Gels stained with Ethidium Bromide, silver stain, Comassie Blue, TLC plates, GFP plates, AutoRads, Spot blots • Chemiluminescence applications Capture and count Colonies (with colored colonies), High speed USB Camera • UV-to-visible light converter screen - area 30.5 x 33cm for viewing protein gels and for other white light applications, Resolution: at least 6 mega pixels • Multiple height adjustable motorized sample racking system • TRUE16-bit Scientific Grade Ultra Peltier COOLED CCD Camera with forced air for extra long exposures • There should be a provision of Dual EPUV for TLC 254 & 365 nm • The cabinet of the machine should accommodate Dual Wavelength pull-out • UV Trans of 25 x 30 cm or still larger for larger gel for RAPD and AFLP. • Advanced Gel Analysis Software (with free lifetime upgradation) (Highly automated software which analyze a gel from loading to output of result in a matter of seconds to perform 1D gel analysis, 2 D Spot Blot analysis, Egels, Automatic Colony counting, Multi-layer gel analysis, Molecular weight, RF, Quantity calculations, PCR analysis, plaque counting, Arrays, Microtiter plates, track profiling, ZymaGels, Gel Scoring, MW pattern matching on single gel, dendograms, Automatic Band Matching, Matching coefficients, matching matrix etc.) , Dual Epi-LED White Lights • Computer controlled motorized filter wheel	1057251.00	M/s. Scientific Corporation, 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012 Phone: 0712-2443431 Email: scientific_corp@bsnl.in scientific112@gmail.com



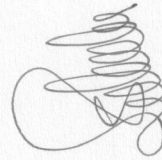
Tender Coordinator
Equipments/ Instruments



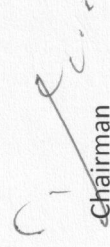
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14.	THERMAL CYCLER	6 or more separately controlled peltier elements of the of newest generation. Each Block should have its own processor with a continuously self-calibrating temperature measuring circuitry or better - Blocks with self calibration temperature measuring - Life Time: More than 600,000 or more cycles should be tested on the block - Heated lid: The heated lid should be controlled by an electric motor so pressure and temperature can be fully programmable 6 or more separately controlled peltier elements of the of newest generation. Each Block should have its own processor with a continuously self-calibrating temperature measuring circuitry or better - Thermo-block should be 96 well, which can accommodate 0.2ml single tubes, 0.2ml strips & microtiter/pcr plates - Blocks should be made of gold, or electroformed gold plated silver - Temperature Uniformity of the block should be $\pm 0.25^{\circ}\text{C}$ at 55°C, $\pm 0.4^{\circ}\text{C}$ at 95°C or better - Heating rate 4.2°C/s, cooling rate 3.6°C/s or better - Ramp rate should be 0.001°C/s to 5.0°C/s or better - Temperature gradient 40°C, $\pm 20^{\circ}\text{C}$ between the blocks from left to right with 12 temperature zones or more	299195.00	M/s. Scientific Corporation, 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012 Phone: 0712-2443431 Email: scientific_corp@bsnl.in scientific112@gmail.com



Tender Coordinator
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