

देशबन्धु महाविद्यालय

(दिल्ली विश्वविद्यालय)

कालकाजी, नई दिल्ली - ११००१९

दूरभाष : २६४३६५६५ फैक्स : २६४४६३६६

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Quotations are invited for the following items for the ongoing ICMR research project at Deshbandhu College University of Delhi, Kalkaji New Delhi-110019. The details of items are given below.

ITEM No. 1: ELISA Reader (Type A)

Hardware Specifications:-

Optical measurement	8 Channel
Plate type	U, V and Flat bottom Plates
Filter type	Narrow band Interference
Filter wavelength	405nm, 450nm, 492nm, 630nm & Two Optional
Filter half bandwidth	10nm \pm 2nm
Filter selection	Automatic by Stepper Motor
Linear measurement range	0.000 to 3.000 Absorbance Units (A)
Machine interface	Touch Panel / Keypad
Photometric accuracy	\pm 2% or 0.005 whichever is higher, from 0 to 1.5 A \pm 3% from 1.5 A to 3.0 A
Display	6" Graphics LCD, Negative Blue, STN
Memory	125 open channel and 2500 patient results, additional 10 micro plate data
Curve plotting	Graphical Representation on Printer
Plate carrier movement	Precisely through the stepper motor
Analysis mode	Absorbance Cut – off Multi - Standard % Absorbance
Storage condition	Temperature From -10°C to 35° C Relative Humidity up to 80 %
Operating conditions	Temperature From + 18°C to 35° C
Interface	USB and RS232
Power	Wattage 50 Watts
Voltage	115 - 230 Volts \pm 10%, 50/60 Hz
Printer	Built in Thermal Printer 52 columns
Drift	<0.005 A/hr
Size & weight	36X36X 22 (Ixbxh); 10 Kg (approx)
Warranty	Should be minimum 1 year
	Additional two year (Optional)

Features:	Application:
• Biochromaitic Reading	• Immunoassays
• Ability to read from any strip in a single plate	• Protein Assay
• Long life of lamp	• Growth Curve
• Built is shaking option with variable speed and time	• Hormone Assays
• Built is stabilizer	• Biochemicals
• Facility to enter clinical name	• Food Diagnostics
• Effective in built Data	• HIV/HCV/HBsAg assays
• Analysis with Curve plot	• Drug levels assays
• Easy to learn and user friendly	• Antioxidants
• Proven optical system	• Cytotoxicity
• Exceptional reliability	• Cell Adhesion assays

ITEM No. 2: ELISA Reader (Type B)

Hardware Specifications, features and application

1. Should have minimum wavelength range of 400–750 nm and photometric range of 0.0–3.5 OD
2. Should have linearity of $\leq 1.0\%$ from 0.0–2.0 OD; $\leq 2.0\%$ from 0.0–3.0 OD; accuracy of $\leq 1.0\%$ or 0.010 from 0.000–3.000 OD at 490 nm; precision of 1.0% or 0.005 OD from 0.0–2.0 OD; 1.5% from 2.0–3.0 OD and resolution of 0.001 OD
3. Should have minimum 8 filter wheel capacity with 415, 450, 490, 595, 655, and 750 nm included filters
4. Should have minimum 3 speed plate shaking with adjustable duration of 0–999 sec
5. Read time should not be more than 6 sec at single wavelength or 10 sec at dual wavelengths
6. Should have onboard graphical thermal printer and USB2 interface for data output
7. Should be able to store data for over sixty assay protocols
8. System should come with a comprehensive software package allowing colorimetric and turbidimetric analyses, as well as report analysis for raw data, absorbance, limit, matrix, normalization, and curve fit
9. Software should have the functionality of flexible template creation for any microplate format up to 1,536 wells
10. Warranty should be minimum one year.

Optional Accessories/Warranty

- Compatible PC
- Compatible UPS with standard backup
- Compatible printer
- Additional two year

ITEM No. 3: Refrigerated Microcentrifuge (For Lab1)

Hardware Specifications, features and application

1. Maximum RCF 21,000xg
2. Maximum Speed above 14,800 RPM
3. Supplied with Rotor 24x1.5ml/2ml with click seal lid. The rotor should be tested and approved by HPA, Porton Down, UK for Biocontainment.
4. Large LED display for Time, Speed and Temperature
5. Max Noise Level: 50dBA
6. Temperature set range from minus 9 °C to plus 40°C
7. Acceleration / deceleration time 12Sec/13 Sec
8. Time set range 1 to 99 min, 1 min increments
9. CSA certified, CE marked, IVD compliant, Certified bio containment
10. Toggle between RPM and RCF.
11. Induction maintenance free rotor
12. Wide selection of following rotors for future upgrade
 - Dual Row rotor 18x2 plus 18x0.5ml for simultaneous run of two different volumes without using adapters.
 - 36x0.5ml rotor .
 - PCR4x8 (32x0.2ml) rotor with Click seal Biocontainment lid.
 - PCR 8x8(64x0.2ml) rotor
13. Warranty should be minimum one year.
14. Additional two year

ITEM No. 4: Refrigerated Microcentrifuge (For Lab2)

Hardware Specifications, features and application

1. System should have Small footprint Refrigerated Centrifuge for speed minimum 14000-16000 rpm and RCF minimum 16500- 18500 x g or more.
2. System should have temperature range 0 to 40°C.
3. System should Keep 4°C at Max. Speed.
4. System should have Dynamic Compressor Control with ECO Shut- off or equivalent technology.
5. System should have fast temp function for quick cooling of centrifuge.
6. System should have condensate drain to prevent accumulation of water in the chamber.
7. Knob version for faster setting of parameters
8. System should have timer 30 s to 99 min and better.
9. System should have noise level less than 56 dBA.
10. System should have quick lock rotor lid for fast lid locking.
11. System should have rpm/rcf switch for easy setting
12. Should have separate short spin function
13. System should have certified aerosol tight rotor.
14. System should have capacity to spin 18-24x1.5,2ml tubes (Autoclavable) with aerosol tight rotor.
15. Acceleration time to max rpm of 12 sec.
16. Braking time to max rpm of 12 sec.
17. System should have height is very low.
18. Should be approved for IVD (In Vitro Diagnostics use)
19. System should be European CE and IEC 61010 certified and certificate should be enclosed along with technical bid.
20. Warranty One Year
21. Additional two year

Terms and Conditions:

1. The interested vendors should read terms and conditions and technical details carefully before filling the quotation.
2. The rate should be quoted with inclusive of all taxes.
3. No cartages will be provided by the College.
4. No advance payment will be made to the vendors.
5. The payment made through RTGS/NEFT after the successful installation of said items
6. The college reserves the rights to change the terms & conditions and the number, nature of the items without showing any reason.

Jas Singh
Dr. Indrakant K. Singh
Mentor

Rajiv Aggarwal
Dr. Rajiv Aggarwal
Principal

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23.11.2018

CORRIGENDUM/ADDENDUM

This is to notify that the last date of submission of quotation for purchase of various items under ICMR research project would be 04.12.2018 and kindly send quotations for each item in separate sealed envelope.


23/11/2018
Dr. Indrakant K. Singh
P.I./Mentor