

Ponda Education Society's
Ravi S. Naik College of Arts and Science,
Farmagudi, Ponda Goa - India 403401
Reaccredited by NAAC with A+ Grade and CGPA of 3.47

OPEN TENDER DOCUMENT
For procurement of instruments under
FIST PG College-Project of Department of Science & Technology
Ministry of Science & Technology, Govt. of India.

INSTRUCTIONS TO THE TENDERERS

Section 1:

- 1. Tender Reference:** DST-FIST PG College-Project
- 2. Date, Time, and Place of Submission:** The tender form should be downloaded from www.pesrncollege.edu.in or obtain the document from the office of the College at Farmagudi, Ponda Goa, on payment of a non-refundable tender fee of Rs. 1000/- by cash or cheque drawn in favour of "Ponda Education Society's Ravi S. Naik College of Arts and Science" payable at Farmagudi, Ponda Goa, in person or through an authorized representative only. The filled Tender is to be submitted at the office of the Principal, Ponda Education Society's Ravi S. Naik College of Arts and Science, Farmagudi, on or before 12.00 p.m. on 22-10-2026 along with the Earnest Money Deposit.
- 3. Bid Type:** Two Bid System: (Technical and Financial bid)
- 4. Mode of Submission:**
Tender should be submitted with duly signed covering letter. Documents must be submitted in two sealed envelopes Technical Bid and Commercial Bid/Financial Bid subscribing on both the envelopes the Tender Reference. The tender envelope shall clearly specify the

Category and Code of instrument for which the tender is submitted. Both these sealed envelopes are to be put in a bigger cover which should also be sealed and duly subscribed with our Tender reference & Date.

5. The tender shall be submitted in a sealed envelope, and shall contain the original Tender Document duly filled in, with quoted rates, details of warranty, etc.
6. Only those tenderers who qualify for the Technical Bid will be invited for commercial /financial bid
7. The Tender envelope should be superscribed by the **Category, Serial Number** and **Code Number** of the instrument. Details of the specification provided in **Annexure 2**.
8. Tenders without above details on the envelope will be rejected without assigning any reason.
9. The leaflets, catalogues, etc. should be sent invariably so that a proper evaluation of the instruments offered is possible. Tenders without these details will be rejected.
10. Communication with bidders will be carried out electronically and /or in hard copy. All bidders must provide their current email address and contact number.
11. The purchaser shall not be responsible for any postal delay and delay in receipt of the offer. Any bids received by the purchaser which does not fulfil the desired terms and conditions shall be rejected outrightly and no communication in this regard shall be sent. Delayed /Late Bids will not be accepted, at any circumstances.
12. All the instrument should be supplied with minimum three years warranty
13. Price bid must be submitted in enclosed price bid format only. If Price bid is not quoted in PRICE BID as provided in Appendix 1 then, the bid will be rejected.
14. Quoting of Price (s): Price quoted should be in Indian Rupees.
15. Free delivery shall be given at Ponda Education Society's Ravi S. Naik College of Arts and Science, Farmagudi, Ponda Goa 403401, at the installation location.
16. The Onsite-installation, commissioning and training should be provided by vendor through a qualified/ trained person.

17. Unconditional technical support as well as application support should be provided as and when required without any additional cost.
18. Any bidder currently engaged in litigation with other Organizations, must inform their status in writing.
19. The college shall not be responsible for any postal delay and delay in receipt of the offer. Any bids received by the college which does not fulfil the desired terms and conditions shall be rejected outrightly and no communication in this regard shall be sent. Delayed /Late Bids will not be accepted, at any circumstances.
20. **Opening of Tenders:** The tenders will be opened in the presence of the tenderers or their duly authorized representatives, if any as per schedule to be communicated to the tenderers, as per the category of the instrument.
21. **Validity of the Tender:** The tenders submitted shall remain valid for a period of 90 days from the date of opening. Tenders once submitted shall not be withdrawn.
22. **General Instructions:** The tenderers shall carefully examine the list of instruments and the technical specifications provided in the **Annexure 2** and strictly adhere to the technical specifications' detail provided therein.
23. **Certificate of Authorization:** Only those vendors who are authorized suppliers of the instrument shall be permitted to submit their bid, and the certificate of authorization issued by the company shall be submitted along with the tender document. Bids received without the certificate/s shall be considered invalid.
24. **Time for supply of Instrument:** 30 days from the date of issue of Purchase Order.
25. **Advance: NOT ADMISSIBLE**
26. **Taxes:** The rates quoted by the tenderers shall be **inclusive of GST. No other charges, including packing, delivery and installation shall be admissible.**
27. **Earnest Money Deposit (EMD):** The tenderer shall submit Earnest Money Deposit equivalent of 2% of the amount quoted. Tenders received without EMD shall be considered as invalid. The EMD of unsuccessful bidders shall be returned within two weeks of opening of the tenders.

28. The successful bidder shall submit 5% of the cost of instrument as security deposit. Security deposit will be returned on the completion of the warranty period.

29. Terms of Payment: Full and final payment shall be affected within 30 days from the completion of installation and successful commissioning of the instrument. All payments shall be affected through the Public Finance Management System (PFMS)/ RTGS/ NEFT.

30. Cancellation of the tender

Notwithstanding anything specified in this Tender. document, P.E.S.'s Ravi S. Naik College of Arts and Science in his sole discretion, unconditionally and without having to assigned any reasons, reserves the rights:

- To accept OR reject lowest bidders or any other bidder or all the bidders.
- To accept any bid in full or in part.
- To reject the bid not confirming to the TENDER terms.

31. TRANSFER AND SUBLETTING: The seller shall not sublet, transfer, assign or otherwise part with the acceptance to the TENDER or any part thereof, either directly or indirectly, without the prior written permission of the P.E.S.'s Ravi S. Naik College of Arts and Science.

Section 2: EVALUATION OF OFFER

1. P.E.S.'s Ravi S. Naik College of Arts and Science evaluate technical and commercial acceptable offers on landed net Price basis.
2. Offer which deviates from the vital conditions (as illustrates below) of the TENDER shall be rejected:
 - Non submission of complete offers.
 - Receipt of offers after due date and time and or by email / fax (unless specified otherwise).
 - Receipt of offers in open conditions.
3. In case any BIDDER is silent on any clauses mentioned in this TENDER document, P.E.S.'s Ravi S. Naik College of Arts and Science shall construe that the BIDDER had accepted the clauses as per the invitation to TENDER no further claim will be entertained.
4. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of TENDER.
5. **Right on Acceptance of Tender:** The College reserves the right to reject or accept any of the tenders without assigning any reason

SECTION 2 – ELIGIBILITY CRITERIA

- The Bidder's firm should have existence for minimum period of 3 years – (Copy of Certificate of Incorporation / Registration Certificate of the firm).
- Copy of the PAN CARD of the firm.
- Copy of GST registration certificate.
- Copy of MSME certificate (if registered).
- The Bidder must not be blacklisted /suspended or any service-related dispute with any Organization /Govt. Organizations / Bank in or outside India or any litigation pending. **Annexure 3.**
- Client Details – The bidders must submit at least 3 successfully completion certificates of rate contracts or completed orders. Copies of such rate contracts or purchase orders must be enclosed with the offer. **Annexure 4.**
- Undertaking **Annexure 5.**
- If bidder is Local dealer/distributor/stockiest, it is mandatory to attach Authorization Certificate along with bid.

SECTION 3 Model Clauses for Tenders:

- I. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority. Further, any bidder (including bidder from India) having specified Transfer of Technology (TOT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same Competent Authority
- II. “Bidder” (including the term ‘tenderer’ ‘consultant’ or ‘service provider’ in certain contexts) means any person or firm or company including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. ‘Bidder (or entity) from a country which shares a land border with India’ for the purpose of this Order means: -
 - A) An entity incorporated, established, or registered in such a country; or
 - B) A subsidiary of an entity incorporated, established, or registered in such a country; or
 - C) An entity substantially controlled through entities incorporated, established, or registered in such a country, or
 - D) An entity whose beneficial owner is situated in such a country; or
 - E) An Indian (or other) agent of such an entity, or
 - F) A natural person who is a citizen of such a country; or
 - G) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- IV. The beneficial owner for the purpose of (iii) above will be as under:

In case of a company or Limited Liability Partnership, the beneficial owner is the natural persons(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

SECTION 4– TERMS AND CONDITIONS

A. AWARD OF CONTRACT :

1. A committee will select the bidders/suppliers for award of contract.
2. The empaneled suppliers will be abiding by all the Terms & Conditions of the TENDER document.
3. All the discounts quoted should be valid for at least three months.

DELIVERY SCHEDULE :

1. Materials should be door delivered at P.E.S.'s Ravi S. Naik College of Arts and Science.
2. Delivery must be made within specified schedule from the issue of the order either directly or through their dealer network unless otherwise specified.
3. If the suppliers fail to deliver the material within the allotted delivery period as specified above, the purchaser may procure goods or services similar to those undelivered upon such terms and in such manner as it deems appropriate from any other firm and the supplier will be liable to the purchaser for any excess cost.
4. Part Supply is normally not acceptable. But may be allowed on genuine cases, on written request only.

B. PENALTY: Timely delivery is essence of the contract and hence if any consignment be delayed, liquidated damages at the rate 0.5% of the price of the delayed consignment, for each week or part whereof shall be levied and recovered subject to maximum of 5% of total purchase order value.

C. FORCE MAJEURE: Force Majeure will be accepted on adequate proof thereof.

D. DISCOUNT: Special Discount should be allowed on your printed Catalogue Price.

E. APPOINTMENT OF LOCAL DEALER/STOCKIEST :

1. The Manufacturers (OEMs) / principals offering for the TENDER may furnish the name and address of their local distributor / dealers, so that the copies can be endorsed them for expeditious supply. In such cases where local dealers / stockiest has been nominated by the principle, the bill raised by them against our purchase order will be accepted.
2. Any addition and deletion of dealership/ distributorship shall be intimated to the undersigned immediately on authorization of a new party.

F. TAXES & DUTIES :

1. GST will be charged as applicable. Any statutory variation will be paid to documentary evidence. Kindly clearly indicate the percentage of GST applicable.

G. LOSS, DAMAGE & SHORTAGE: P.E.S.'s Ravi S. Naik College of Arts and Science shall not be responsible for any loss, damages and shortage during transit. Payment shall be made for materials received in GOOD CONDITION only.

H. GENERAL :

1. The material so supplied will have to be of high quality & grade and in the event if instruments are found to be of inferior quality, the supplier is liable to be banned or suspended from doing business in P.E.S.'s Ravi S. Naik College of Arts and Science.
2. The acceptance of the offer will rest with the P.E.S.'s Ravi S. Naik College of Arts and Science, who does not bind himself to accept the lowest bid and reserves the right to reject/accept partially or wholly the TENDER received, without assigning any reason.
3. Mere submission of applicable/ proposal does not imply acceptance of the same at this end and the firms will be enlisted only after meeting the laid down qualifying parameters for which decision of P.E.S.'s Ravi S. Naik College of Arts and Science shall be final and binding on the parties.
4. Printed terms and conditions of the applicant on their quotation Form/ Literature/ Letter etc. If any, will not be binding on us.

I. ACCEPTANCE / REJECTION: P.E.S.'s Ravi S. Naik College of Arts and Science reserve the right to accept a quotation in part or in full or to reject all quotations or any of the quotation received, for noncompliance of any of the above items, conditions or instructions or for any other reason without assigning any reason thereof.

J. LEGAL MATTER: All disputes are subject to Goa jurisdiction only.

Annexure 1 BIDDER'S INFORMATION

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|------------|------------------|
| Sr.
No. | Vendor's Details |
|------------|------------------|
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- | | |
|----|---|
| 1. | NAME & ADDRESS OF THE FIRM/VENDOR

(with Tel./Mobile/email address)

NAME & ADDRESS OF THE LOCAL AUTHORISED DEALER/DISTRIBUTERS, if applicable

Phone with STD code |
| 2. | Fax

Email

Contact Person

Mobile No. |
| 3. | GST NO. OF THE FIRM / DEALER (Copy to be attached) |
| 4. | PAN NO. OF THE DEALER (copy to be attached) |
| 5. | Type of Bidder – |

Manufacturer (Please mention)

Authorised Dealer/Stockiest of Chemical / Glasswares/
Labwares (Attach Authorisation Certificate)

Bank Details :

Account Number

6. Bank Name

Bank Address

IFSC Code

7. MSME Details (If registered)

Annexure 2

A. Specification of the instruments for Technical Bid

Category: Instrument's

Sr. No.	Code No	Name of the instrument	Specifications	Quantity	Specification provided by the Tenderer
1.	A1	FT-IR Instrument	Detector: DLATGS / DTGS Source: Ceramic light source Interferometer: Michelson's interferometer with approx. 45° incident angle completely sealed and desiccated optics or better. Beam Splitter: Optics must be Ge coated KBr Spectral Operating Range: 7800 cm⁻¹ to 350 cm⁻¹ Spectral Resolution: 0.4 cm⁻¹ Signal to Noise Ratio: 35,000 :1 Wavelength Accuracy: + 0.01 cm⁻¹ @ 2,000 cm⁻¹ Wavelength Precision Repeatability: < 0.001 cm⁻¹ @ 2,000 cm⁻¹ (standard deviation of 10 repeated measurement) Report Format: Calibration report, IR report Accessories: • ZNSE complete ATR accessories • For Validation, Polystyrene film reference material traceable to NIST standard for wavelength accuracy Features: • It should have built-in advanced data processing capabilities including full Quantitation, multi-linear regression, ATR correction • Should have built-in atmospheric correction function for automatic elimination of water vapour and CO₂ peaks	1	

			- The equipment should be designed to endure high-humidity environments due to KRS-5 window. - Vibration-proof optical bench - Large sampling compartment can accommodate even Autosampler - Only Auto-alignment facility - Purgeable optics - Compatible to FTIR microscopy and IR Imaging - Rapid scan option facility - Wavenumber extension option facility - Vibrational Circular Dichroism (VCD) option facility PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher		
2.	A2	UV-Visible spectrophotometer	Optical System: Single monochromator 1200 groove/mm concave grating, True Double beam optics. Light source: Halogen lamp, Deuterium lamp Wavelength range: 190 to 1100 nm Wavelength accuracy: +/-0.2 nm (at 656.1 nm) Wavelength repeatability: +/-0.1 nm Spectral bandwidth (SBW): 1 nm Stray light: 1 % (198 nm KCl 12 g/L aqueous solution) 0.02 % (220 nm NaI 10 g/L aqueous solution) 0.02 % (340 nm NaNO₂ 50 g/L aqueous solution) 0.02 % (370 nm NaNO₂ 50 g/L aqueous solution)	1	

			• SBW: 1 nm Photometric range: -3~3 Abs Photometric accuracy: • +/-0.0015 Abs (0 to 0.5 Abs) • +/-0.0025 Abs (0.5 to 1 Abs) • +/-0.3 %T Tested • with NIST SRM 930D Photometric repeatability: • +/-0.0005 Abs (0 to 0.5 Abs) • +/-0.0005 Abs (0.5 to 1 Abs) • Tested with NIST SRM 930D Scanning speed: 10-8000 nm/min Slew speed: 24,000 nm/min RMS noise: 0.00004 Abs (0 Abs, wavelength: 500 nm, measurement time: 60 sec, SBW: 1 nm) Baseline stability: 0.0004 Abs/hour (Value obtained more than one hour after turning on the source, when the room temperature is stabilized, wavelength: 250 nm, response: slow) Baseline flatness: +/-0.0005 Abs (200 - 1000 nm) Detector: Silicon photodiode Standard facilities: IQ accessories, Start button, Analog output Standard program: • Abs/%T meter, Quantitative analysis, Spectrum measurement, • Time course measurement, Fixed wavelength measurement, Validation, Daily check program Daily maintenance, Film thickness, colour analysis, enzyme activity measurement (enzyme kinetics), Two wavelengths time course measurement (only for PC)		
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			PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher		
3.	A3	Rotary Evaporator	Lift Type : Manual Condenser Type : Vertical Cooling Surface Area : 1500 cm ² Rotation Speed (RPM) : 20-320 Suitable flask size (ml) : 50-3000 ml Rotation speed setting Display Required Temperature Range (°C) : 20 – 210 Temperature Accuracy (°C) : 1 Overheat Protection : Safety cutoff Temperature Setting : Digital Temperature Control Electronic : PID Control Material Heating Bath - Ceramic Coated Volume Heating bath (L) : ~ 4.5L - Dia ~ 255mm Suitable 50- 3000 ml Bath Position - Flexible to extend, to suit flask size Sealing ring - Graphite filled PTFE Forward & Reverse Motion (Clockwise & Anti Clockwise) of Evaporation Flask required Timer : 0 to 99 minutes Vacuum pump Number of heads / stages 2/2 Max. pumping speed at 50 Hz - 1.8 m ³ /h or higher Ultimate vacuum (abs.) - 9/7 (mbar/torr) or higher Operating pressure (bar) - 0.5	1	

			Diaphragm – PTFE coated Recirculating chiller Working temperature range (°C) : -15°C to 20 °C (minimum) Temperature stability (°C) : ± 0.1 Pump flow max. L/min : 12		
4.	A4	Real Time PCR	No. of channels : 5 Multiplexing : 5 Color Sample Capacity : 96 x 0.2 mL Well PCR plate/ tubes, 12x8 (0.2 mL) Strips , optical clear bottom Dynamic Range : 1~10 ¹⁰ Copies Excitation Wavelength : 300-800nm Emission Wavelength : 500-800nm Detected Fluorescence : F1: FAM, SYBR, : F2: HEX, TET, JOE, VIC, : F3: ROX, TEXAS-RED, : F4: CY5, : F5: CY5.5 Passive reference dye: ROX Block Temp. Range : 4~105°C (Minimum Increment 0.1°C) Soak Low Temperature, Conservation Function Heating / Cooling Rate : 4.0°C/s (max) Temp. Control Accuracy : ≤ ± 0.1°C Temp. Fluctuation : ≤ ± 0.1°C Temp. Uniformity : ≤ ± 0.3°C Temp. Mode : Temp mode - Fast / standard Sample Volume Range : 5~100 µL Gradient Temp Range : 1~36°C Hot-Lid Temp. Range : 30~110 °C (Adjustable Default 105 °C), Automatic Hot-Lid Fluorescence Detection Repeatability : Within 5% Scan Mode : Entire Plate or Designated Line	1	

			Run Time : Max 20 Segments for each Program, Max 99 Cycles Operation Mode : Continuous Scan Period : 5.5 seconds Feature Function : Absolute Quantification, Automatic Data Analysis, Melt Curve, Genotyping, Gradient, Correction, Customized Parameters PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher		
5.	A5	Spectrofluorometer	Light source : Xe lamp with shielded lamp house, 150 W (long life type) Light Source (for Validation) : Integrated, selectable low pressure mercury lamp Photometric system: Ratio Photometer system: using Monochromatic light to monitor the intensity output of the Xe lamp Monochromator : Holographic concave grating Wavelength range : Ex/Em: Zero order, 200 - 750 nm Sensitivity (RMS) : 4.500:1 Resolution: Ex / Em : 1.0 nm (at 546.1 nm) Band width: Ex / Em : 1, 2.5, 5, 10, 20 nm Wavelength accuracy : ± 1.5 nm Wavelength Repeatability : ± 1.0 nm Wavelength scan speed : 20, 50, 100, 200, 500, 1000, Ex : Em 2000,5000,10,000,20,000 nm/min Slew Speed : 30,000 nm /min Response : 10, 20, 50, 100, 200, 500 msec, 1, 2, 4, 8 sec Detector : Ex: Silicon photodiode, Em: PMT Photometric Range : -10,000 - 10,000	1	

			Sensitivity Selection : High, Medium, Low, Very Low, Manual, Auto SCS Auto Gain : Standard Shutter Function : Standard (Automatic control) Sample Illuminating System : Horizontal illumination Sample Compartment : 10 mm rectangular cell holder, nitrogen purgeable Recognition of IQ Accessory : Standard Start Button : Standard Instrument Communication : USB 2.0 Measurement programs : Spectra measurement, Quantitative measurement, Fixed wavelength measurement, Time course measurement, 3D Spectra measurement, Abs measurement, Spectra correction program : Standard *6 Instrument validation : Program and Hg lamp (Standard), Self-diagnosis : Standard IQ Accessory recognition: Standard Accessories : Solid sample block PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher		
6.	A6	Fluorescence Microscope	Reflected LED Fluorescence Trinocular Microscope with EPI-LED (Blue and Green) Life Time : 30,000 hrs LED power: 3 W Blue : 480 nm Green : 535nm	1	

			Emission Filters: 1 or 2 position front sliding filter carrier depending on the excitation spectra, with iris diaphragm for high contrast and sharpness. Digital Camera (with 0.35X TR adapter) 5 Megapixel Camera with Software		
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Specification of the instrument and consumables for Financial Bid

Category: Instrument's

Sr. No.	Code No	Name of the instrument	Specifications	Quantity	Rate per unit In Rupees	Amount inclusive of GST in Rupees
1.	A1	FT-IR Instrument	Detector: DLATGS / DTGS Source: Ceramic light source Interferometer: Michelson's interferometer with approx. 45° incident angle completely sealed and desiccated optics or better. Beam Splitter: Optics must be Ge coated KBr Spectral Operating Range: 7800 cm⁻¹ to 350 cm⁻¹ Spectral Resolution: 0.4 cm⁻¹ Signal to Noise Ratio: 35,000 :1 Wavelength Accuracy: + 0.01 cm⁻¹ @ 2,000 cm⁻¹ Wavelength Precision Repeatability: < 0.001 cm⁻¹ @ 2,000 cm⁻¹ (standard deviation of 10 repeated measurement) Report Format: Calibration report, IR report Accessories: • ZNSE complete ATR accessories • For Validation, Polystyrene film reference material traceable to NIST standard for wavelength accuracy Features: • It should have built-in advanced data processing capabilities including full Quantitation, multi-linear regression, ATR correction	1		

			• Should have built-in atmospheric correction function for automatic elimination of water vapour and CO₂ peaks • The equipment should be designed to endure high-humidity environments due to KRS-5 window. • Vibration-proof optical bench • Large sampling compartment can accommodate even Autosampler • Only Auto-alignment facility • Purgeable optics • Compatible to FTIR microscopy and IR Imaging • Rapid scan option facility • Wavenumber extension option facility • Vibrational Circular Dichroism (VCD) option facility PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher			
2.	A2	UV-Visible spectrophotometer	Optical System: Single monochromator 1200 groove/mm concave grating, True Double beam optics. Light source: Halogen lamp, Deuterium lamp Wavelength range: 190 to 1100 nm Wavelength accuracy: +/-0.2 nm (at 656.1 nm) Wavelength repeatability: +/-0.1 nm Spectral bandwidth (SBW): 1 nm Stray light: • 1 % (198 nm KCl 12 g/L aqueous solution) • 0.02 % (220 nm NaI 10 g/L aqueous solution)	1		

			• 0.02 % (340 nm NaNO₂ 50 g/L aqueous solution) • 0.02 % (370 nm NaNO₂ 50 g/L aqueous solution) • SBW: 1 nm Photometric range: -3~3 Abs Photometric accuracy: • +/-0.0015 Abs (0 to 0.5 Abs) • +/-0.0025 Abs (0.5 to 1 Abs) • +/-0.3 %T Tested • with NIST SRM 930D Photometric repeatability: • +/-0.0005 Abs (0 to 0.5 Abs) • +/-0.0005 Abs (0.5 to 1 Abs) • Tested with NIST SRM 930D Scanning speed: 10-8000 nm/min Slew speed: 24,000 nm/min RMS noise: 0.00004 Abs (0 Abs, wavelength: 500 nm, measurement time: 60 sec, SBW: 1 nm) Baseline stability: 0.0004 Abs/hour (Value obtained more than one hour after turning on the source, when the room temperature is stabilized, wavelength: 250 nm, response: slow) Baseline flatness: +/-0.0005 Abs (200 - 1000 nm) Detector: Silicon photodiode Standard facilities: IQ accessories, Start button, Analog output Standard program: • Abs/%T meter, Quantitative analysis, Spectrum measurement, • Time course measurement, Fixed wavelength measurement, Validation, Daily check program Daily maintenance, Film thickness, colour analysis, enzyme			
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			activity measurement (enzyme kinetics), Two wavelengths time course measurement (only for PC) PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher			
3.	A3	Rotary Evaporator	Lift Type : Manual Condenser Type : Vertical Cooling Surface Area : 1500 cm² Rotation Speed (RPM) : 20-320 Suitable flask size (ml) : 50-3000 ml Rotation speed setting Display Required Temperature Range (°C) : 20 – 210 Temperature Accuracy (°C) : 1 Overheat Protection : Safety cutoff Temperature Setting : Digital Temperature Control Electronic : PID Control Material Heating Bath - Ceramic Coated Volume Heating bath (L) : ~ 4.5L - Dia ~ 255mm Suitable 50- 3000 ml Bath Position - Flexible to extend, to suit flask size Sealing ring - Graphite filled PTFE Forward & Reverse Motion (Clockwise & Anti Clockwise) of Evaporation Flask required Timer : 0 to 99 minutes Vacuum pump Number of heads / stages 2/2 Max. pumping speed at 50 Hz - 1.8 m³/h or higher	1		

			Ultimate vacuum (abs.) - 9/7 (mbar/torr) or higher Operating pressure (bar) - 0.5 Diaphragm – PTFE coated Recirculating chiller Working temperature range (°C) : -15°C to 20 °C (minimum) Temperature stability (°C) : ± 0.1 Pump flow max. L/min : 12			
4.	A4	Real Time PCR	No. of channels : 5 Multiplexing : 5 Color Sample Capacity : 96 x 0.2 mL Well PCR plate/ tubes, 12x8 (0.2 mL) Strips , optical clear bottom Dynamic Range : 1~10¹⁰ Copies Excitation Wavelength : 300-800nm Emission Wavelength : 500-800nm Detected Fluorescence : F1: FAM, SYBR, : F2: HEX, TET, JOE, VIC, : F3: ROX, TEXAS-RED, : F4: CY5, : F5: CY5.5 Passive reference dye: ROX Block Temp. Range : 4~105°C (Minimum Increment 0.1°C) Soak Low Temperature, Conservation Function Heating / Cooling Rate : 4.0°C/s (max) Temp. Control Accuracy : ≤ ± 0.1°C Temp. Fluctuation : ≤ ± 0.1°C Temp. Uniformity : ≤ ± 0.3°C Temp. Mode : Temp mode - Fast / standard Sample Volume Range : 5~100 µL Gradient Temp Range : 1~36°C Hot-Lid Temp. Range : 30~110 °C (Adjustable Default 105 °C), Automatic Hot-Lid	1		

			Fluorescence Detection Repeatability : Within 5% Scan Mode : Entire Plate or Designated Line Run Time : Max 20 Segments for each Program, Max 99 Cycles Operation Mode : Continuous Scan Period : 5.5 seconds Feature Function : Absolute Quantification, Automatic Data Analysis, Melt Curve, Genotyping, Gradient, Correction, Customized Parameters PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher			
5.	A5	Spectrofluorometer	Light source : Xe lamp with shielded lamp house, 150 W (long life type) Light Source (for Validation) : Integrated, selectable low pressure mercury lamp Photometric system: Ratio Photometer system: using Monochromatic light to monitor the intensity output of the Xe lamp Monochromator : Holographic concave grating Wavelength range : Ex/Em: Zero order, 200 - 750 nm Sensitivity (RMS) : 4.500:1 Resolution: Ex / Em : 1.0 nm (at 546.1 nm) Band width: Ex / Em : 1, 2.5, 5, 10, 20 nm Wavelength accuracy : ± 1.5 nm Wavelength Repeatability : ± 1.0 nm Wavelength scan speed : 20, 50, 100, 200, 500, 1000, Ex : Em 2000,5000,10,000,20,000 nm/min Slew Speed : 30,000 nm /min Response : 10, 20, 50, 100, 200, 500 msec, 1, 2, 4, 8 sec	1		

			Detector : Ex: Silicon photodiode, Em: PMT Photometric Range : -10,000 - 10,000 Sensitivity Selection : High, Medium, Low, Very Low, Manual, Auto SCS Auto Gain : Standard Shutter Function : Standard (Automatic control) Sample Illuminating System : Horizontal illumination Sample Compartment : 10 mm rectangular cell holder, nitrogen purgeable Recognition of IQ Accessory : Standard Start Button : Standard Instrument Communication : USB 2.0 Measurement programs : Spectra measurement, Quantitative measurement, Fixed wavelength measurement, Time course measurement, 3D Spectra measurement, Abs measurement, Spectra correction program : Standard *6 Instrument validation : Program and Hg lamp (Standard), Self-diagnosis : Standard IQ Accessory recognition: Standard Accessories : Solid sample block PC Configuration :Memory: 4 GB RAM, Hard Disk: 500 GB, DVD writer Operating System :Microsoft Windows 10, CPU: Intel i3 or higher			
6.	A6	Fluorescence Microscope	Reflected LED Fluorescence Trinocular Microscope with EPI-LED (Blue and Green) Life Time : 30,000 hrs LED power: 3 W Blue : 480 nm	1		

			Green : 535nm Emission Filters: 1 or 2 position front sliding filter carrier depending on the excitation spectra, with iris diaphragm for high contrast and sharpness. Digital Camera (with 0.35X TR adapter) 5 Megapixel Camera with Software			
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(On Company / firm's Letterhead)

ANNEXURE 3 – DECLARATION REGARDING CLEAN TRACK

To,

Date :

The Principal
Ponda Education Society's
Ravi S. Naik College of Arts and Science
Farmagudi, Ponda-Goa
403401

Sir,

Ref : Tender for the Supply of Instrument's.

I/we carefully gone through the Terms & Conditions contained in the above referred Tender. I/we hereby declare that my company / firm is not currently debarred / black listed by any Government / Semi Government Organizations / Institutions in India or abroad. I/we further certify that I am competent officer in my company /firm to make this declaration.

Yours faithfully

(Signature of the Bidder)

Printed Name

Designation

Seal

(On Company / firm's Letterhead)

ANNEXURE 4: CLIENT DETAILS

To,

Date :

The Principal
Ponda Education Society's
Ravi S. Naik College of Arts and Science
Farmagudi, Ponda-Goa
403401

Sir,

Ref: Tender for the Supply instrument's

I/we hereby mention following list of our clients which mention 3 successfully completion certificates of rate contracts or completed orders.
(Copies of such rate contracts or purchase orders must be enclosed with the offer).

Sr. No.	Name of Client	Purchase order / rate contract details	Amount of Order
1.			
2.			
3.			

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

On Company / firm's Letterhead)

ANNEXURE 5 : UNDERTAKING

We hereby declare that all the particulars given in this TENDER are true and complete to the best of our knowledge and belief and we will produce all the relevant documents promptly, if necessary or as and when asked for by Ponda Education Society's Ravi S. Naik College of Arts and Science. We understand that information provided by us will serve as prequalification Criteria for enlistment on purchase order and in the event of any information being found false or incorrect or ineligibility being detected even after the approval of purchase order your order may be cancelled and all your claims may be forfeited by the Ponda Education Society's Ravi S. Naik College of Arts and Science. We have read and understood all the terms and conditions of TENDER and we fully agree to it. on.

(Signature of the Bidder)

Printed Name

Designation

Seal

Date :

Business Address :

SECTION 6 CHECKLIST

The following items must be checked before the TENDER is submitted:

1. Envelope “A”

- a. Eligibility Criteria Responses (each pages duly sealed and signed by the authorized signatory)
- b. Copy of this TENDER document duly sealed and signed by the authorized signatory on every pages.
- c. Technical bid
- d. Annexure A1: Declaration Regarding Clean Track by Bidder.
Annexure A2: Client's Details.

Annexure A3: Declaration of Annual Turnover and Income Tax Return.

Annexure A4: Undertaking.

2. Envelope “B”

- a. Commercial Bid

Your quotation must be submitted in two envelopes Technical Bid (Envelope A) and Commercial Bid (Envelope B) subscribing on both the envelopes the TENDER reference and the due date and both these sealed covers are to be put in a bigger cover which should also be sealed and duly subscribed with our TENDER reference & due date.