

WOMEN'S POLYTECHNIC COLLEGE
(PIPMATE - A GOVERNMENT OF PUDUCHERRY UNDERTAKING)
LAWSPET, PUDUCHERRY – 605 008
Phone No. 0413-2252833

TENDER SCHEDULE–III: Supply of Equipment/ Machineries/ Laboratory Articles for I-year Engineering – Physics and Chemistry Laboratories of Women's Polytechnic College, Puducherry under Centrally Sponsored Scheme of MHRD - Up-gradation of Existing Polytechnics.

TERMS AND CONDITIONS

Bidders intending to offer rates for **Supply of Equipment/ Machineries/ Laboratory Articles** to Women's Polytechnic College, Puducherry should observe the Terms and Conditions given below:

1. Each Bidder must go through the Terms and Conditions containing the Description and Specification of the Equipment/ Machineries/ Laboratory Articles, carefully and understand them before submitting their tender on-line. No excuse that the Terms and Conditions have not been read or misunderstood will be entertained later.
2. The Bidders shall either be the Manufacturer or an Authorized dealer / Supplier of the quoted Equipment/ Machineries/ Laboratory Articles.
3. The Bidders shall submit their Tenders for the Equipment/ Machineries/ Laboratory Articles as per the specifications, supported with necessary Technical details and pamphlets/catalogues. The Technical details and pamphlets/catalogues of the Equipment/ Machineries/ Laboratory Articles quoted shall be submitted along with other documents required for Technical Bid.
4. The Bidders shall submit their Tender on-line before the last date for submission. Bidders are requested to stick to the date and time limit specified in the e-Tender notice. Tenders will be accepted only if they are submitted in the prescribed manner.
5. Each tender must be accompanied by an **Earnest Money Deposit (E.M.D.) of ₹11,150/-** (Rupees Eleven thousand one hundred and fifty only) as mentioned in the e-tender notice. **The E.M.D. amount should be in the form of demand draft drawn on any of the nationalized banks, in favour of "The Principal, Women's Polytechnic College, Puducherry", payable at Puducherry. Bank guarantee or payment in any other form will not be accepted.**

6. The tenders submitted without the requisite E.M.D. amount will be summarily rejected and no request for exemption will be entertained except from the firms registered as Industrial Co-operative Society / Small Scale Industries with Government of Puducherry / N.S.I.C./ D.G.S. & D. as applicable. In such cases, a copy of the valid certificate for exemption of E.M.D. should be furnished along with the tender.
7. The E.M.D. amount will be returned to the unsuccessful bidders, but retained in the case of successful bidders and will be refunded only after execution of the supply order.
8. The bidder withdrawing the tender once submitted / not executing the supply order will lose the entire E.M.D. amount paid.
9. The rates should be quoted in whole Rupee and paisa only. The rates for each Equipment/ Machineries/ Laboratory Articles should be independent of other Equipment/ Machineries/ Laboratory Articles.
10. The rates quoted should be exclusive of all taxes, duties and all incidental charges such as loading, unloading, packing, forwarding, installation, insurance and stocking charges etc. The taxes applicable per unit may be entered in the appropriate columns of BoQ.
11. If artificially low rates are quoted in the tender, this institution will not consider any subsequent claim for compensation. The Bidders are advised to satisfy themselves that the rates quoted are only for the readily available Equipment/ Machineries/ Laboratory Articles, for which the tenders have been invited.
12. No representation for upward revision of rates will be allowed. Ex-Godown rates offered by the firm are not acceptable and such tenders will be summarily rejected. The rates quoted should be "FOR destination" basis, the destination being the Women's Polytechnic College, Puducherry.
13. The rates quoted should be in Indian currency only for the units specified against the Equipment/ Machineries/ Laboratory Articles and payment will be made in Indian currency only.
14. Government of India, DGS&D and Government of Puducherry rate contracts are to be compared with lowest price offered by the supplier through tender.
15. Installation and demonstration of Equipment/ Machineries/ Laboratory Articles should be done by the successful bidder at Institution premises at free of cost. Technical Reference and User Manuals are to be supplied for the Equipment/ Machineries/ Laboratory Articles on free of cost.

16. The Equipment/ Machineries/ Laboratory Articles supplied shall be guaranteed for satisfactory working performance for a period of at least 12 months from the date of supply/ commissioning. Any defects noticed during this period shall be rectified at free of cost to the complete satisfaction of the Institution. If the damage is more and the Equipment/ Machineries/ Laboratory Articles is not functioning properly at the time of installation, then the entire Equipment/ Machineries/ Laboratory Articles must be replaced with a new one.
17. The requirements of Equipment/ Machineries/ Laboratory Articles found in this Tender Schedule are only approximate. The bidder should undertake to supply those requirements in excess or lesser to those specified in the schedule, as per the actual requirement of the Institution.
18. The order will be placed with the successful bidders for the supply of Equipment/ Machineries/ Laboratory Articles. The supply should be made at the supplier's own risk. In case of damages and breakages, if found in transit, the Equipment/ Machineries/ Laboratory Articles, thereof should be replaced.
19. Acceptance of the tender will rest with the Principal, Women's Polytechnic College, Puducherry, who does not bind herself to accept the lowest tender and reserves to herself the authority to reject any or all the tenders received without assigning any reasons. The Principal has the power to accept the Equipment/ Machineries/ Laboratory Articles of higher cost, if they are of reputed make and are as per the specifications. The decision of the Principal, Women's Polytechnic College, Puducherry in all matters relating to this Tender Schedule shall be final and conclusive. In case of any dispute, Puducherry shall be the place of jurisdiction.
20. The tender shall be submitted only if the bidder is agreeable to all the Terms and Conditions of this Tender Schedule, which includes the Description and Specifications of the Equipment/ Machineries/ Laboratory Articles mentioned therein. Irrespective of the Terms and Conditions that may have been specified by the bidder, only the Terms and Conditions specified in this Tender Document will be binding on the Bidder and the Tendering Authority.

21. The Technical Bid Cover is to be submitted to “The Principal, Women’s Polytechnic College, Puducherry”, with the following documents:

- a. Annexure-I, as per the format enclosed.
- b. **Demand drafts towards tender fee ₹525/-and E.M.D. amount of ₹11,150/- (Rupees Eleven thousand one hundred and fifty only), drawn in favour of the Principal, Women’s Polytechnic College, Puducherry.**
- c. Declaration as given in the next para 22.
- d. Technical details of Equipment/ Machineries/ Laboratory Articles with Make and Model No., supported by pamphlets and catalogues etc.

It is mandatory for the Bidder to upload the scanned copies of the above documents.

22. The bidders shall furnish a declaration as given below in token of acceptance of all the Terms and Conditions of this tender. Otherwise, the tender will be rejected.

DECLARATION

“I/We[Name of the firm / proprietor], the undersigned hereby solemnly declare that the Terms and Conditions of Tender Schedule-III: Supply of Equipment/ Machineries/ Laboratory Articles for I-year Engineering – Physics and Chemistry Laboratories of Women’s Polytechnic College, Puducherry, under Centrally Sponsored Scheme of MHRD - Upgradation of Existing Polytechnics are accepted and that in the event of selection of my / our rates, the Equipment/ Machineries/ Laboratory Articles will be supplied within the stipulated period.”

**SIGNATURE OF THE BIDDER
(AUTHORIZED SIGNATORY)**

23. The Financial Bid shall contain the Tender offer form (BoQ). This bid shall contain only the price list. Any discrepancy in this regard will cause the rejection of the price list.

24. If the bidder is not willing to quote for any item, the appropriate columns shall be left blank. Financial Bid (Bill of quantities –BoQ) of the qualified bidders will be opened on the prescribed date. The qualified bidders in Technical bid will be informed through e-mail.

25. The rates quoted should be only as per the unit printed in the schedule and should be valid for a period of one year from the date of opening of the tender.
26. The bid validity period is 180 days and the successful bidder must supply the materials within a period of 30 days from the date of the supply order.
27. In case any Equipment/ Machineries/ Laboratory Articles present in the list are found to be covered under DGS&D rate contract or in the quoting of the Government of India/ Government of India Undertaking firms, such Equipment/ Machineries/ Laboratory Articles will not be considered through this tender.
28. Copies of any document submitted along with tender including Xerox copies, should be clear and legible. If the required certificates are in a language other than English, attested copy of English version should be furnished for verification and record.
29. Entry to participate in the Tender Opening Committee Meeting is restricted only to bonafide bidders or one of their Authorized Representatives. The bidders or their Authorized Representative who are present shall produce the authorization letter and sign in the Attendance register evidencing their presence during the opening of the tenders.
30. The bidder or their Authorized Representative who are present shall not bring mobile phones to the venue of tender opening.
31. In the event of tender opening date, being declared as a holiday for the office of the tendering authority, the due date for submission of tender and opening of tender will be the next working day at the same time.
32. The bidder shall bear all costs associated with the preparation and submission of tender and this institution will in no case be responsible or liable for these costs, regardless of the outcome of the tendering process.
33. Specification and requirements of Equipment/ Machineries/ Laboratory Articles is available in **Annexure-II**. The quantity of stores (Equipment/ Machineries/ Laboratory Articles) indicated in the schedule is only tentative and approximate. This institution has the right to increase or decrease the quantity required of any Equipment/ Machineries/ Laboratory Articles.

34. The Principal, Women's Polytechnic College, Puducherry is vested with powers to cancel or revoke the Supply order without assigning any reason therefor, if the Supplier fails to effect the supply in conformity with the terms and conditions mentioned in this tender schedule and supply order.
35. The Equipment/ Machineries/ Laboratory Articles should be delivered to Women's Polytechnic College, Puducherry on receipt of supply order or as per the delivery schedule in the supply order. The Bidder/ Supplier shall take back rejected Equipment/ Machineries/ Laboratory Articles within 7 days from the date of communication. If the Bidder/ Supplier fail to remove the rejected stores within the specified period, the same will be disposed off by the Principal, Women's Polytechnic College, Puducherry.
36. The bidder shall submit the bill of cost in triplicate along with an advanced stamped receipt immediately after execution of the supply order for arranging payment. The payment will be made on receipt of said Equipment/ Machineries/ Laboratory Articles at site, in good condition subject to fulfillment of all other terms and conditions.
37. Payment shall be made only after executing the supply order to the entire satisfaction of the Institution. No advance payment will be made under any circumstances.
38. The Bidder shall mention the Address for Communication with Landline/ Mobile Phone number and E-mail I.D. for informing the status of Technical bid.

**G. RANI
PRINCIPAL**

**ANNEXURE-I
TECHNICAL BID**

From

.....,
.....,
.....,
.....
Phone No.:.....
Mobile Phone No.:.....
E-mail I.D.....

To

The Principal,
Women's Polytechnic College,
Lawspet, Puducherry – 605 008.

Sir,

Sub: Technical Bid for the "**Tender Schedule-III: Supply of Equipment/ Machineries/ Laboratory Articles for I-year Engineering – Physics and Chemistry Laboratories of Women's Polytechnic College, Puducherry, under Centrally Sponsored Scheme of MHRD - Up-gradation of Existing Polytechnics**" – Submitted – Reg.

I/ We submit herewith the Technical Bid through on-line for the "**Tender Schedule-III: Supply of Equipment/ Machineries/ Laboratory Articles for I-year Engineering – Physics and Chemistry Laboratories of Women's Polytechnic College, Puducherry, under Centrally Sponsored Scheme of MHRD - Up-gradation of Existing Polytechnics**" with the following documents for consideration.

1. Scanned Copy of D.D. towards tender fee for ₹525/-.
2. Scanned Copy of D.D. towards E.M.D. amount of ₹11,150/-.
3. Declaration of the Bidder.
4. Scanned copies of Catalogues/ Technical pamphlets of items to be supplied with make and model details.

Yours faithfully,

(AUTHORIZED SIGNATORY)

Encl. as above.

[N.B. The Bidder should submit the copy of the Technical Bid as per Annexure-I and copies of proof for payment of tender fee and E.M.D. amount etc. to the Principal, Women's Polytechnic College, Puducherry before 26-4-2017@12.00 noon]

ANNEXURE-II

Tender Schedule-III: Supply of Equipment/ Machineries/ Laboratory Articles for I-year Engineering – Physics and Chemistry Laboratories of Women's Polytechnic College, Puducherry, under Centrally Sponsored Scheme of MHRD - Up-gradation of Existing Polytechnics

SL. No.	ITEM WITH SPECIFICATION	QUANTITY
1	<u>SONOMETER SET UP</u> Wooden hollow box Scale: Graduated wooden scales along the length (mm graduation) of the resonating Wire; Accessories: steel wire attached to fixed ridge and tensioned adjustment pegs; Two moveable bridges, pulleys and fixed screw to enable a third wire to be fixed for tensioning by masses Weight hanger and masses in kg.	6 Nos.
2	<u>POTENTIOMETER SET UP</u> Potentiometer 10 wire laminated board with boss side sun mice pencil jockey with brass fitting with connecting lead.	6 Nos.
3	<u>METER BRIDGE</u> The four-gap bridge has large and heavy brass strip of mounted on a seasonal wood base of size 44"x4". Heavy nine nos. brass terminals are provided to reduce the resistance to a minimum. The ends gaps are closed by removable brass bridging pieces which are held in position by the terminals. The 24 S.W.G. Constantan wire is stretched along the top of wooden meter scale and securely clamped to the brass end strips so that end errors are negligible. Supplied with pencil jockey & lead wire	6 Nos.
4	<u>RESISTANCE BOXES COMPRISING THE FOLLOWING:</u> <ol style="list-style-type: none"> a) SINGLE DIAL RESISTANCE BOXES – 1 No.: Range: 0.1; Total Resistance: 1. b) SINGLE DIAL RESISTANCE BOXES – 1 No.: Range: 1; Total Resistance: 10. c) SINGLE DIAL RESISTANCE BOXES – 1 No.: Range: 10; Total Resistance: 100. d) SINGLE DIAL RESISTANCE BOXES – 1 No.: Range: 100; Total Resistance: 1000. e) TWO DIAL RESISTANCE BOXES – 1 No.: Range: 1, 10; Total Resistance: 110. f) THREE DIAL RESISTANCE BOXES – 1 No.: Range: 0.1, 1, 10; Total Resistance: 111. g) THREE DIAL RESISTANCE BOXES – 1 No.: Range: 1, 10, 100; Total Resistance: 1110. h) THREE DIAL RESISTANCE BOXES – 1 No.: Range: 10, 100, 1000; Total Resistance: 11110. i) FOUR DIAL RESISTANCE BOXES – 1 No.: Range: 0.1, 1, 10, 100; Total Resistance: 1111. j) FOUR DIAL RESISTANCE BOXES- 1 No.: Range: 1, 10, 100, 1000; Total Resistance: 1111. 	1 set

5	<u>PELLETIZER</u> Designed as per cGMP Model; Contact parts in AISI 316 and non-contact parts in AISI 304; The powder is converted to pellet directly by fluidization of water/ binder; The machines are provided with the spraying nozzle - 1No; AC frequency drive for variable speed of drum; <u>Technical Specifications:</u> Output: 1 Kg; Total Electric Power: 0.75 kW; Drum size: Dia. 300 x 75 mm; Drum speed: Up to 90 RPM through AC Frequency drive.	1 No.
6	<u>SOLAR CELL TRAINER KIT</u> Voltmeter: DC200mV, DC2V, DC20V, DC200V four gears of manual switching; voltage meter minimum resolution: 0.1mV; Ammeter: DC 200μA, DC 2mA, DC 20 mA and DC 200mA four gears of manual switching, current meter minimum resolution:0.1uA; Illuminometer: Range 20Lx, 200Lx and 2000Lx three gears of manual switching Illuminometer minimum resolution: 0.01Lx; Source: Spotlight Solar cell: 398 * 325mm, 10W. Working parameters: Power: 220V/50Hz.	4 Nos.
7	<u>LCR METER</u> Test parameter: L-Q, C-D, R-Q, Z -Q; Test frequencies: 100Hz, 120Hz, 1kHz, 10kHz; Fast measurement speed (80ms); Large LCD with backlight; SMT surface mount technique; 2 signal source output impedance: 30Ohm, 100Ohm; Equivalent circuit: series, parallel; Range mode: Auto, hold; Measurement speed: 12meas/s, 5.1meas/s, 2.5meas/s; Correction function: Open / Short multi-frequency zeroing; Measurement terminals: 5; Power consumption: 20VA; Operation temperature and humidity: 0°C up to 40°C, up to 90%RH; Dimensions (W/H/D): 270/130/300 mm; Weight: 3.7 Kg. <u>Measurement ranges:</u> Z , R: 0.1mΩ - 99.99MΩ; C: 0.01pF - 99999μF; L: 0.01μH - 99999H; D: 0.0001 - 9.999; Q: 0.0001 - 9999; Δ%: -999.99% - 999.99%.	1 No.
8	<u>VISCOSITY APPARATUS:</u> Voltage: 110V±10%; 220V±10%; Frequency: 60Hz±10%; 50Hz±10%; Measurement Range: 1-1×100000 mPa·s; Rotor Specification: 1#,2#,3#,4#,four kind rotors; Measurement Error: ±2% (Newton Liquid); Rotor Velocity : 6 rpm, 12 rpm, 30 rpm, and 60 rpm(automatic); Ambient Temperature: 5°C-35°C; Relation Humidity: ≤80%.	1 No.
9	<u>LOGIC GATE TRAINER KIT</u> (01)+ 5V D.C. at 100mA, IC Regulated Power Supply internally connected; (02) Four, 2-input NAND gates; (03) 2-input OR gate; (04) 2-input AND gate; (05) Two switches for giving binary logic input states; (06) Two LEDs, driven by LED driver circuit for visual indication of output; (07) Adequate no. of other Electronic Components; (08) Mains ON/OFF switch, Fuse and Jewel light; The unit is operative on 230V ±10% at 50Hz A.C. Mains; Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre; Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms; Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References; Weight : 3 Kg. (Approx.).	5 Nos.

10	<u>DIODE CHARACTERISTICS WITH EXTERNAL POWER SUPPLY</u> Specifications: Variable DC supply 0 to 15 V @ 500 mA; On panel diodes 1N4007, OA79 & BY127; Two dual range digital panel meters; Required numbers of patch cords and operating manual.; Power Supply: DC Regulated 0-100V, 150mA; Voltmeter: Magnetic Coil Type 0-2/100 Volt; Ammeter: Magnetic Coil Type 0-10/1 mA; PN Junction: 1 Forward & 1 Reverse; Size: 11"x9"x3". EXTERNAL POWER SUPPLY: INPUT VOLTAGE 230v+/- 10% AC 50Hz; Output voltage: 0-30V DC Continuously variable with coarse and fine controls; Output current: 0-5A; Settable with coarse and fine control.	5 Nos.
11	<u>WIND ENERGY TRAINER KIT</u> Wind Turbine Setup: Contain 3 blades Maximum; Open Circuit Voltage: 3V Maximum; Short Circuit Current: 250 mA; Voltmeter: 0-10 V; Ammeter: 0-500 mA; Potentiometer: 5 KO1 AA; Rechargeable: 1.2 VNiCd; Battery Lamp: 1.2 V, 250 mA; Fan: 1.5 V, 250 mA; FM Band Radio: 3 V.	1 No.
12	<u>DIGITAL VERNIER CALIPER 150MM</u> Specifications: LCD Display; Range: 0 - 150mm; Resolution: 0.01mm; Auto Power Off mm / Inch Conversion.	1 No.
13	<u>BAROMETER (DIGITAL)</u> Barometer function: 300-1100 hPa/mbar (metric), 8.84-32.44 in HG (Imperial); Basic Accuracy 1hPa/mbar (0.01HG); Max./Min memory for barometer pressure; Pressure History and graphical display; Weather forecast; Pressure trend indicator Perpetual calendar with day of week Low battery indication.	1 No.
14	<u>TRANSFORMER FOR SODIUM VAPOUR LAMP</u> Output 55 watts; ON/OFF indicator; Extra Plug in the transformer.	4 Nos.
15	<u>TELESCOPE</u> Optical Design: Refractor; Aperture (mm): 80 mm (3.15 Inch); Focal Length (mm): 900 mm (35 Inch); Focal Ratio: 11; Eyepiece 1 (mm): 25 mm (0.98 Inch); Magnification1: 36 x; Eyepiece 2 (mm): 9 mm (0.35 Inch); Magnification2: 100 x; Finder scope: Built-on Star Pointer; Star Diagonal: 1.25 Erect Image; Mount: Motorized Altazimuth; Accessory Tray: No Tool, Quick release Tripod: Aluminium; Weight (lbs): 14 lbs (6.35 kg); Highest Useful Magnification: 189 x Lowest Useful Magnification: 11 x; Limiting Stellar Magnitude: 12; Resolution (Rayleigh): 1.74 arc seconds; Resolution (Dawes): 1.45 arc seconds; Light Gathering Power (Compared to human eye): 131 x; Angular Field of View (deg): 1.6 Degree ; Linear Field of View (@1000 yds): 84 ft (26 m); Optical Coatings: Fully-Coated; Payload Capacity: 5 lbs (2.27 kg); Slew Speeds: Nine slew speeds, 3 Degree/sec, 2 Degree/sec, 1 Degree/sec, .64x, 32x, 16x, 8x, 4x, 2x; Tracking Rates: Sidereal, Solar and Lunar; Tracking Modes: Alt-Az, EQ North and EQ South; Alignment Procedures: Sky Align, Auto 2-Star Align, 1-Star Align, 2-Star Align, Solar System Align; Computer Hand Control: Fully Computerized / Flash Upgradeable; Database: 4,000 Object Database.	1 No.

16	<u>DISTILLATION UNIT</u> wall mounted type - 6L/hr output; pH 6-7, pyrogen free.	1No.
17	<u>OVEN</u> Hot air oven (Digital); 355mm*355mm*355mm Technical specifications:Temp. Range: Ambient +5-degree C to 250 degrees C; Temp. Accuracy: 5-degree C;Operating Voltage: 230 V;with options: Timer, Microprocessor based.	1No.
18	<u>REFRIGERATOR</u> Double door, metallic finish, 3 star, frost free; capacity: 235 L, inbuilt stabilizer.	1No.
19	<u>FIRE EXTINGUISHER</u> For Class ABC fires;pressurized dry chemical based;working pressure not to exceed 15 kg per sq.cm.	1No.
20	<u>WALL MOUNTED FAN</u> powerful motor ensures high air delivery; aerodynamic blades;powder coated guard.	1No.
21	<u>GLASSWARES COMPRISING THE FOLLOWING:</u> a) Glass bottle [Stoppered] - 250ml. -narrow mouthed – 200 nos. b) Conical flask – 100ml. – 300 nos. c) Test tube small [15mm x 125mm] – 1000nos. d) Test tube big [20mm x 150mm] – 500 nos. e) Glass bottle – Stoppered – 100ml – 100 nos. f) Reagent Bottle - 125 ml – 200 nos. g) Standard Measuring flask – 100ml – 30 nos.	1 set
22	<u>DIGITAL BALANCE [2 DECIMAL ACCURACY]</u> Minimum display 0.01g;Pan size [160*124 (mm)];Temperaturecoefficient of sensitivity [10-35 deg C];LCD display, full TARE capacity.	1No.