**Government e-Procurement System**  
*Tender Input Form-CPPP*  
(for ePublishing)  

## TENDER INPUT FORM

### (A) Basic Details:

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<th>Payment Mode*</th>
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<td>SS-Small Savings Instrument</td>
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### (B) Cover Details:

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<td>3 3 Covers</td>
<td>(a) Fee (b) Prequal/Technical (c) Financial</td>
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<td>(a) Fee (b) Prequal (c) Technical (d) Financial</td>
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# Government e-Procurement System

**Tender Input Form-CPPP**
(for ePublishing)

### (C) NIT DOCUMENT (ONLY .JPG AND .PDF FILES ARE SUPPORTED)

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### (D) WORK ITEM DETAILS:

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<td>Tender, Empanelment</td>
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<td>Tender Value *</td>
<td>INR, US, EUR</td>
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Error! Not a valid bookmark self-reference.

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<th>Bid Validity days *</th>
<th>If other, specify</th>
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<td>8</td>
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<tr>
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<th></th>
<th>Tenderer Class *</th>
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<tbody>
<tr>
<td>14</td>
<td>A, B, C, D, E</td>
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<table>
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<th>Inviting Officer *</th>
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<td>15</td>
<td>Principal, BCAS</td>
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<th></th>
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<tr>
<td>16</td>
<td>BCAS, Sec-2, Phase-1, Dwarka</td>
<td><a href="mailto:bhaskaracharya.college@gmail.com">bhaskaracharya.college@gmail.com</a></td>
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</tbody>
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### (E) FEE DETAILS:

![Fee Details](image-url)

---

Officiating Principal
Bhaskaracharya College of Applied Sciences
(University of Delhi)
Sector-2, Phase-1, Dwarka, New Delhi-75
Government e-Procurement System
Tender Input Form-CPPP
(for ePublishing)

1. **TENDER CHARGES:**
   1 (a) Tender Fee
   1 (b) Processing Fee
   1 (c) Surcharges
   1 (d) Other Charges
   1 (e) Tender Charges Payable To *
   1 (f) Tender Charges Payable At *

2. **EMD Fee Details:**
   2 (a) EMD Fee
   2 (b) If EMD Fee is Fixed
       EMD Amount: **6500/-**
   2 (c) EMD Exemption Allowed
       □ Full □ Partial □ None
   2 (d) If EMD Exemption Allowed is Partial,
       EMD Exemption Percentage %
   2 (e) EMD Fee Payable To *
       Principal, Bhaskaracharya College of Applied Sciences
       Delhi
   2 (f) EMD Fee Payable At *

(F) **CRITICAL DATES:**

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[Stamp]

[Address]

[Signature]
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Prepared by:  
Name/Designation: DR. Geeza Bhatt  
T. I. C.  
Date of updation:  

Approved by:  
Name/Designation:  

Seal of the Office of the TIA:  

Dr. Geeza Bhatt  
T. I. C.
## Specifications for Electrical Machine Instruments

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<td><strong>Power measurement kits for single phase</strong></td>
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<td></td>
<td>1) The Panel should have facility to calculate the Power and Power factor in a</td>
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<tr>
<td></td>
<td>Single-Phase circuit using 3 Voltmeters or 3 ammeters.</td>
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<tr>
<td></td>
<td>2) Circuit diagram should be screen printed on the top of the Panel.</td>
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<td>3) BS 10 Type safety terminals &amp; patch cords should be provided for Proper</td>
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<tr>
<td></td>
<td>safety.</td>
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<td>4) <strong>Technical Specifications</strong></td>
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<td>Mains supply : 0-230V ±10%, 50Hz</td>
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<td>Auxiliary supply : 230V ±10%, 50Hz</td>
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<td>Choke Coil : 300mH, 5A</td>
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<td>Voltmeter : 0-500V</td>
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<td>Ammeter : 0-5A</td>
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<td>MCB : 5A</td>
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<td>Rheostat : 45 ohms/5 A</td>
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<td>External Variac : 230V/10 A single phase</td>
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<td>02</td>
<td><strong>Power measurement kits for Three phase</strong></td>
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<td>1) The Panel should have facility to perform experiments like study of</td>
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<td>Measurement of Power Factor in a Three Phase Circuit</td>
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<td>2) Measurement of Active, Reactive and Apparent Power in a Three Phase</td>
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<td>Circuit. Circuit diagram should be screen printed on the top of the Panel.</td>
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<td>4) BS 10 Type safety terminals &amp; patch cords should be provided for Proper</td>
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<td>5) <strong>Technical Specifications</strong></td>
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<td>Mains Supply : Three Phase 415V ±10%, 50Hz</td>
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<td>Load: R-L</td>
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<td>Meters : Wattmeters : 500W (2 Nos.)</td>
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<td>Voltmeter (MI) : 500V</td>
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<td>Ammeter (MI) : 1A</td>
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<td>MCB : 10A</td>
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<td>External Variac : 440V/10 A three Phase.</td>
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<td><strong>Induction Motor</strong></td>
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<td>1) Trainer should be able to perform experiments like Study of Single phase</td>
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<td>induction motor for No Load, Load test, Blocked rotor test and running &amp;</td>
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<td>reversing of single phase induction motor.</td>
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<td>3) BS 16 Type safety terminals &amp; patch cords should be provided on panel</td>
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<td>Circuit /Block diagram should be screen printed on the panel.</td>
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<td>4) Single Phase Variac 220V/10A should be provided with the setup</td>
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<td>5) <strong>Technical Specifications</strong></td>
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<td></td>
<td>a) Motor : Single phase induction motor , capacitor start type , rating : 1</td>
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<td>b) Voltage rating : 230V ± 10 %</td>
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<tr>
<td></td>
<td>c) Speed : 1440 RPM at no load</td>
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<td></td>
<td>d) Insulation : Class B BS 10 type terminal should be brought on the top of</td>
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<td>the motor for connections to the control panel</td>
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<td>e) Digital Tachometer 20000 RPM</td>
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<td>f) Mechanical loading arrangement should be provided along with the motor.</td>
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<td></td>
<td>g) Heavy duty base/channel for motor mounting, Aluminum casted brake</td>
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<tr>
<td></td>
<td>drum/pulley with heat suppression facility.</td>
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<td>h) Control Panel:</td>
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<td>Voltmeter : 0-300 V; Ammeter : 0-10 A; Wattmeter : 1500 W</td>
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<td>MCB : 10 A; Mains Supply : Single Phase 230 V ±10%, 50 Hz</td>
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\[\text{Induction Motor supply.}\]
04 Stepper motor
1) Stepper motor operation through pulse circuit
2) Stepper motor operation through 8085 kit
3) Dynamic response study
4) The motor unit is housed in a separate cabinet with transparent cover for easy viewing.
5) Interconnection with the main unit is through a standard 9-pin D-type connector.
6) All power supplies and step input signal are internally provided
7) Single stepping and free running modes of operation with speed variation and direction reversal - internal TTL circuit.
8) 360° motion Servo-Potentiometer position-pickup for motor dynamics
Operation through microprocessor kit - sample control programs provided
9) Should be supplied with Microprocessor Kit
10) Stepper motor specification
   Torque: 2.8 Kg-cm; Step angle: 1.8°; Power: 6V, 1A/phase
   Mains supply: 220V±10%, 50Hz

05 Servo motor
   Technical Specifications
1) Two phase ac servo motor (2500 RPM) housed in Aluminum case for cool operation
2) Digital Electronic speed sensor with RPM display upon panel meter
3) Digital DC Ammeter for load current
4) PMDC motor for loading
5) Torque calculation from back EMF
6) Variable isolated (on/off through separate switch) supply for AC servomotor with speed control.
7) Sockets given for output voltage (fed to motor) measurement
8) DC supply (on/off through separate switch) with potentiometer to vary PMDC motor current
9) Housed in rigid MS powder coated cabinet with molded frame
10) Mains supply: 220V±10%, 50Hz

06 Oscilloscope demonstrator
1) Oscilloscope in open form with all components and controls placed on single PCB Amplifier, Time base, Channel section signal available on test points. Separate sections for PS, EHT, VA, HA, TB & Trigger for easy identification
   Fault correction & Rectification provided. Track printing with different colours on different sections on component board for easy circuit training
   Legend Printing on PCB for easy identification of components
   Can be used as a standard 20 MHz Dual Trace Oscilloscope.
   Bandwidth: DC-20 MHz (+3 dB)
   Channel I, Channel II, Channel I & II Alternate or chopped, Controls provided on PCB. Channel selection signals available at Test points. X-Y operation 1:1
2) Vertical Deflection (Y)
   Deflection Coefficients: 12 calibrated steps 5 mV/cm - 20 V/cm
   Maximum Input voltage: 350 V (DC + Peak AC)
   Pre-Amp, Final Amp Outputs at Test Points.
3) Time base
   Time Coefficients: 18 calibrated steps, 0.5 µs/cm - 0.2 s/cm with magnifier x 5 to 100 ns/cm, with variable control to 40 ns/cm
   TB generator at Test Points
4) Trigger System:
   Modes: Automatic or Variable; Source: CH I, CH II, External;
   Slope: Positive or Negative; Coupling: AC, TV Frame
5) Component Tester:
   Test Voltage: Max 8.6 V (Open) rms; Test Current: Max 8 mA (Shorted) rms
   Test Frequency: 50 Hz; Test circuit grounded to chassis
   Fault Simulation: Total 15 Faults included
   Included Accessories: Learning material (CD), BNC-BNC Cable 1 No., BNC-Red-BNC 1 No., Test Probes 1 pair, Additional Jumpers 10