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| logo | JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  UNIVERSITY COLLEGE OF ENGINEERING - VIZIANAGARAM  **Via Cantonment, Dwarapudi (Post)**  **Vizianagaram -535 003**  **Phone:08922-277911 Fax 08922-277488** |

**TENDER NOTICE**

**Tender Notice No. JNTUK-VZM/Lab Equipment/ Furniture/canteen/Xerox centre 2017, Date: 20-05-2017**

Sealed quotations are invited from reputed Dealers/ Suppliers for the supply of the listed items. The detailed specifications, terms & Conditions for the items can be obtained in respect of items from the undersigned from **20/05/2017** between **11.00 am to 5.00 pm** on payment of**. 500/- (Non- Refundable)** in the form of Demand Draft payable at Vizianagaram in favor of  **Principal, JNTUK University College of Engineering, Vizianagaram** drawn on any nationalized bank not earlier than date of this notification. The application can also be downloaded from [www.jntuk.edu.in](http://www.jntuk.edu.in) or [www.jntukucev.ac.in](http://www.jntukucev.ac.in) . The candidates who have downloaded the application from the website need to enclose a DD for Rs. 500/- as application cost. The sealed quotations should reach the undersigned on or before **2.00 pm on 08-06-2017.**

The College Authorities reserve the right to accept or reject any or all bids without assigning any reason whatsoever.

**PRINCIPAL**

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**Tender Notice No. JNTUK-VZM/Lab Equipment/ Furniture/canteen/Xerox centre 2017, Date: 20-05-2017**

**TENDER SCHEDULE**

**GENERAL CONDITIONS:**

1. Please quote your lowest rates for each item described. The quotation should reach this office **on or before 08-06-2017 by 14:00 hrs.** Sealed covers should be submitted for the items super scribing as **“Tender No.”, “Date of opening:”, “Item Number(s)”.** Separate sealed cover should be submitted for each item. The sealed covers should be sent by the Registered Post or to be dropped in the sealed box provided in the office of the Principal. The tender will be **opened on 08-06-2017 at 14:30 hrs** by the undersigned/his nominee in the presence of the committee members and available bidders or their representatives.

1. **E.M.D:** The tender documents should be submitted along with earnest money deposit **Rs.5,000/-** in the form of Demand Draft in favor of **“The Principal, JNTUK, University College of Engineering, Vizianagaram”** to be payable at State Bank of Hyderabad, LTB Road branch, Vizianagaram. The Demand Draft pertaining to E.M.D. of unsuccessful party will be returned.
2. **PRICES:** The price should be F.O.R. destination inclusive of taxes, packing & forwarding charges, freight, delivery and installation charges. Items on rate contract, if any together with the terms and conditions may please be furnished.
3. **PAYMENT:** 100% payment will be made within a reasonable time only after the receipt of all items in good condition and installation as per given specifications and after testing for satisfactory working and on receipt of the company’s invoice with all Supporting vouchers such as copy of A.P. Sales Tax or VAT Registration certificate etc. **No advance will be paid in any case either in part or in full.**
4. **ACCEPTANCE:** It is not binding on the university/ institution to accept the lowest of the tenders. The university/ institution reserves the right to place orders for individual items with different bidders.
5. **SPECIFICATIONS:** Detailed specifications along with the description and make should be mentioned in the bid.
6. **Warranty/Guaranty:** Warranty/Guaranty period should be mentioned by the bidder.

8. **DELIVERY:** The period of delivery at destination from date of placing orders is **FOUR WEEKS**.

9. **VALIDITY:** The quotations should be valid for at least 90 days.

10. The Institution reserves the right to cancel the tender without assigning any reason.

11. Those that purchased tender schedule officially by paying **Rs. 500/-** in the form of Demand Draft drawn in favor of Principal, JNTUK, University College of Engineering, payable at Vizianagaram are only eligible to Participate in the tender. Those who have downloaded the tender schedule from the JNTUK website ([www.jntuk.edu.in](http://www.jntuk.edu.in) or [www.jntukucev.ac.in](http://www.jntukucev.ac.in) ) should submit a separate DD for **Rs.500/-** along with the quotation.

12. This Institution being Government educational institution is exempted from payment of Central/State Excise Duty.

13. Since the college is Government institution whatever conditions are applicable to any Government institute shall be applicable even if not specified.

14. Any tender that is received after due date will not be accepted. The college is not responsible for any postal delay.

15. List of Major Customers should be provided.

**PRINCIPAL**

Encl: Items with Description

**Item No: 1**

**(Library -Air Conditioners)**

**1. Air Conditioners - Specifications:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Detailed specifications** | **Specific conditions** |
|  | **1.5 Ton Air Conditioners – 12 Nos**  Split AC, 1.5 Ton Capacity, 5Star, Guarantee:1 year comprehensive and 4 years on compressor, Aluminium type Condenser. | Company details are to be provided. |

**Item No: 2**

**(Library-Furniture)**

1. **Furniture – specifications:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Detailed specifications** | **Specific conditions** |
|  | 34 Numbers of Modular Furniture with Chairs for Digital Library to accommodate 34 systems | Company details are to be provided. |
| 2. | 96 Number of Study Chairs for Library  (Study chair wooden made 4 strips two supports back and seat, steel clamped on four sides and strip back) | Company details are to be provided |
| 3. | 24 Number of Reading Tables of Size 6’X5’X3’ for Library | Company details are to be provided |
| 4. | 24 Number of Library Stacks Double faced Units  (Dimensions: Overall height: 2285mm (7.5 Ft.) Width on one Basic plus one add-on section: 1830 (6Ft.) Depth of double faced stack: 558 mm (22”) ) | Company details are to be provided |
| 5. | Active and passive components used for 140 number of computers for digital Library | Company details are to be provided |

**Item No: 3**

**(Library – Computers)**

1. **Computers – specifications:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Detailed specifications** | **Specific conditions** |
|  | **Computers – 10 Nos**  Intel Core i5 processor, 6th Generation processor System, 4GB DDR4 RAM, Intel H110 Chipset, 1TB sata hard disk, 19.5 inch LED display, 10USB, 1 HDMI, 1 lan port chasis intrusion switch, windows 10 Home, 64 bit, 3 years warranty | Company details are to be provided. |

**Item No: 4**

**Department of Civil engineering – Lab Equipment**

1. **Geotechnical lab:**

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the equipment with specifications | Qty |
| 1 | **Triaxial Cell :**   * Suitable for 38 mm and 50 mm diameter specimen and for lateral pressure up to 1000 kPa (10.5 kg./cm2). * The cell base should have four take off positions – for monitoring cell pressure and pore water pressure at positions 1 and 2; positions 3 and 4 are for top and bottom drainage: * Complete with loading pad (1 no.), * plain discs (2 nos.), porous stones (2 nos.) , sheath stretcher (1 no.), split sand , former (1 no.), rubber sheaths (pack of ten), sealing ring (4 no’s). | 01 |
| 2 | **CBR apparatus:**   * Machine operated, 50KN capacity, * Mould of 150mm ID x 175mm high with clamping   lugs complete with extension collar and perforated  base plate made of gun metal.   * A penetration piston assembly of 50mm diameter and   a bracket for the dial gauge.   * A perforated swell plate of 148mm diameter with an adjustable stem and lock nut. * A circular spacing disc of 148mm diameter x 47.7mm * Surcharge weight: Annular - 2.5kg., 147mm diameter * Surcharge weight: Slotted - 2.5kg., 147mm diameter * The unit should be supplied with a motorized load frame with   a single speed of 1.25mm/min   * Wired for 230V, sph 50 Hz * A circular spacing disc of 148mm diameter x 47.7mm * A metal tripod for the dial gauge. | 01 |
| 3 | **Unconfined compression testing equipment**   * Mechanically operated machine * The apparatus should consist of a load frame of 50 kN capacity, motorized operated. * A strain dial gauge bracket should be provided and fitted to one of the pillars. * The instrument should be supplied with a set of 100mm diameter upper and lower plain platens. * The lower platten should have groves for proper centering | 01 |
| 4 | **Three part split mould** | 01 |
| 5 | **Direct shear apparatus:**   * shear box assembly 60mm, square, with two porous plates, two solid grid plates, two perforated grid plates, one retaining plate and one loading pad, complete with a shear box housing and ball roller strips. Loading unit normal stress capacity 3 kg/cm2 (on a 60mm square specimen) * Complete with lever loading fixture. * Specimen cutter for a specimen size 60mm x 60mm x 25mm high. * Set of weights as follows, to give a normal stress of 3 kg/cm2 through lever arrangements: * 4 x 0.05 kg/cm2, 1 x 0.1 kg/cm2, 1 x 0.2 kg/cm2, * 3 x 0.5 kg/cm2, 1 x 1.0 kg/cm2. * The motorized Unit to provide strain rates of * 1.25, 0.625, 0.25, 0.125, 0.05, 0.025, 0.01, 0.005, 0.002, 0.001, 0.0004 and 0.0002 mm/minutes * Wired for 230V sph 50 Hz. | 01 |

1. **Concrete technology lab:**

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the equipment with specifications | Qty |
| 1 | **Compression testing machine :**   * Capacity: 2000 kN. * Digital type * Load Indicator with an additional provision for stress calculation at peak value. * Complete with a set of spacer blocks of 50mm., 100mm.and   200mm.   * Least Count in kN: 1 * Vertical Clearance: 410 mm * Horizontal Clearance: 310 mm * Upper Platen Dia.: 300 mm * Lower Platen Dia.: 300 mm * Ram travel: 75 mm * Specimen Size * Cube (mm): 100, 150 & 200 * Cylinder (dia. & ht.): 150 x 300 mm | 01 |

1. **Strength of Materials lab:**

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the equipment with specifications | Qty |
| 1 | **Torsion Testing machine:**   * Unique TALON-CLAW Grips for round and flat specimens * Torsional speed of 0.1/0.2 RPM * Torque Compensated Motors * Maintenance free gear box * Load – unload capability * Variable speed drive * The accuracy of the torque indication + 1% of the true torque. * Auto range selection with range selector wheel * Capacity 100 kg-m * Ranges in 100, 50 & 20 kg-m * Clearance between grips 0-500mm * Grips for round bars 10-34mm * Grips for flat bars 5-15mm * Gear motor III-Phase, 0.5HP | 01 |
| 2 | **Spring Testing machine:**   * Motorised, Digital Spring Testing Machine   Suitable for testing both compression and tension  Springs with Sample springs   * Capacity - 200 kg * 100mm dia loading pads * stroke: 300mm display resolution 0.01mm * Multi Ranging load / Force Display resolution | 01 |
| 3 | **Deflection of beams apparatus (Continuous beam):**  Rigid base and supports  Suitable for cantilever beams and continuous beams  Should be suitable to measure deflection and slope | 01 |
| 4 | **Beam setup for Maxwell’s theorem verification:**  MS beam with graduations at every 10 Cm  Equipped with a dial gauge and magnetic base | 01 |

**Item No: 5**

**Department of EEE – Modular furniture**

1. **Modular Workstations with Sliding Keyboard Tray, Mouse pad and CPU Trolley -33Nos**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name of the equipment** | **Quantity** | **Specifications** | **Specific Conditions** |
| 1. | Modular workstations with Sliding Keyboard Tray, Mouse pad, and CPU Trolley. | 33 | Each Workstation of Length-3ft, Depth-2ft, Height-4ft | Price should be Inclusive of all taxes, transportation and fitting charges at customer site. |
| 2 | Revolving chairs (medium Back) with hydraulic gas lift | 33 | Medium Back Revolving computer chairs with hydraulic gas lift | Price should be Inclusive of all taxes, transportation and fitting charges at customer site. |

**Item No: 6**

**Department of EEE-**

**Equipment for Electrical Measurements Laboratory**

1. **Calibration And Testing Of Single Phase Energy Meter - SETUP**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 1 | Calibration and Testing of single phase energy Meter | Calibration and Testing of single phase energy Meter Setup should include   * One single phase Watt Hour meter(Disc type) (230V/5A) * One single phase Watt meter (300/150V)/10A, UPF * One MI voltmeter(0-300V) * One MI ammeter(0-5A) * One 1-Ф Resistive Load (230 V,15 A) * One Lamp Load * One single phase auto transformer (0-230V)/(0-270)V, 10A | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting, testing charges at customer site. |

**2. Calibration Of Dynamometer Power Factor Meter- SETUP**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 2 | Calibration of dynamometer power factor meter | Calibration of dynamometer power factor meter setup should include   * One single phase Wattmeter(300/150V)/10A UPF * One MI voltmeter(0-300V) * One MI ammeter(0-5A) * One 1-Ф Resistive Load (230 V,15 A) * Two 1-Ф Variac(0-230)V/(0-270)V),10A * One rheostat (100Ω/5A) | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**3. Calibration of PMMC ammeter and PMMC voltmeter- SET UP**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 3 | Calibration of PMMC ammeter and PMMC voltmeter | Calibration of PMMC ammeter and PMMC voltmeter using Crompton D.C. Potentiometer setup should include   * One PMMC ammeter (300V/30V) * One PMMC Voltmeter 300V * One Crompton DC Potentiometer | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**4. Kelvin’s Double Bridge Kit**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 4 | Kelvin’s double Bridge | -- | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**5. Schering bridge Kit**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed**  **Specifications** | **Specific Conditions** |
| 5 | Schering bridge. | --- | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**6. Anderson Bridge Kit**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 6 | Anderson bridge. | --- | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**7. Calibration LPF wattmeter by Phantom testing-set up**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 7 | Calibration LPF wattmeter by Phantom testing | One setup of Calibration LPF wattmeter by Phantom testing should include   * One single phase Variac (0-230)V/(0-270)V (10A) * One MI Ammeter ( 0-10A) * One single phase MI Voltmeter (0-300v) * One single phase P.F meter * One single phase Resistive load-10amp | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**8. C.T. testing using mutual Inductor – Measurement of % ratio error and phase angle of given C.T. by Null method Setup**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 8 | C.T. testing using mutual Inductor – Measurement of % ratio error and phase angle of given C.T. by Null method | One setup of CT Testing Should include   * Two current transformer 500/ 5A * Two upf wattmeter 600/5A One burden7.5 VA * One MI ammeter (0-5)A * One MI voltmeter (0-230)V * One phase shifting transformer | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**9. P.T. testing by comparison – V.G. as Null detector – Measurement of % ratio error and phase angle of the given P.T. set up**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 9 | P.T. testing by comparison – V.G. as Null detector – Measurement of % ratio error and phase angle of the given P.T. | One setup of P.T. testing by comparison – V.G. as Null detector – Measurement of % ratio error and phase angle of the given P.T. should include   * One single phase transformer 11kv/110v * One burden 7.5 VA * One hv injecting transformer * Phase sequence indicator rotating disc type suitable for operation on 50-230v ,25-60 hz ac with connecting leads | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**10. LVDT-Setup**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 10 | LVDT | * One setup of LVDT with Linear scale LVDT Sensor with micrometer Range : 0-25mm * Displacement calibration Range: +/- 10mm * Output Voltage : 0-2V * LVDT sensor interface * 230vac input with power ON/Off switch and Indications | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting , testing charges at customer site. |

**11. Air Core Choke coil**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Particulars** | **Detailed Specifications** | **Specific Conditions** |
| 11 | Air Core Choke coil | 150mH, 10A | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting, testing charges at customer site. |

**Item No: 7**

**Department of EEE-**

**Equipment for Electrical Circuits Laboratory**

**1. Voltmeter**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Type** | **Range** | **Specific Conditions** |
| 1. | Voltmeter | MI | (0-300)V | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |
| MI | (0-600)V |
| MC | (0-600)V |

**2. Wattmeter**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Type** | **Range** | **Specific Conditions** |
| 2 | Wattmeter | LPF | 600V/2.5A | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |
| UPF | 600V/10A |
| UPF | 600V/5A |

**3. Single Phase Resistive Load Bank**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Range** | **Specific Conditions** |
| 3 | Single Phase Resistive Load Bank | (0-15)A | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**4. Three Phase Resistive Load Bank**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Range** | **Specific Conditions** |
| 4 | Three Phase Resistive Load Bank | (0-15)A | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**5. Rheostats**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Type** | **Range** | **Specific Conditions** |
| 5 | Rheostats | WW | 290Ω/2.8A | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting, testing charges at customer site. |
| WW | 230Ω/1.7A |
| WW | 100Ω/5A |
| WW | 290Ω/2.8A |
| WW | 100Ω/5A |
| WW | 50Ω/5A |
| WW | 20Ω/5A |

**6. Decade Capacitance Box (DCB)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Range** | **Specific Conditions** |
| 6 | DCB | (0-10)µF | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**7.Decade Resistance Box (DRB)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Apparatus** | **Range** | **Specific Conditions** |
| 7 | DRB | (0-100)MΩ | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**8. Millimeter**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Apparatus** | **Specific Conditions** |
| 8 | Multimeter (Digital) | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**9. Measurement of 3 phase power with single watt meter and 2 No’s of C.T-SETUP**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Apparatus** | **Detailed Specifications** | **Specific Conditions** |
| 9 | Measurement of 3 phase power with single watt meter and 2 No’s of C.T. | One setup of Measurement of 3 phase power with single watt meter and 2 No’s of C.T.  One single phase Watt meter (600/300/150)/10A,UPF  One Ammeter (0-10)A MI.  One Voltmeter(0-600)V MI  Two Current Transformer (CT) 5/5A  One three phase balanced resistive load(15 A) | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**10. Measurement of 3 phase reactive power with single-phase wattmeter-SETUP**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Apparatus** | **Detailed Specifications** | **Specific Conditions** |
| 10 | Measurement of 3 phase reactive power with single-phase wattmeter. | One setup of Measurement of 3 phase reactive power with single-phase wattmeter should include   * One single phase Watt meter (600/300/150V)/10A,LPF * One Ammeter (0-10)A MI. * One Voltmeter(0-600)V MI * One three phase auto transformer (0-415)V/(0-470)V, 10A * One three phase balanced inductive load(10A) | Price Inclusive of all taxes and should include testing, transportation, installation, and fitting testing charges at customer site. |

**Item No: 8**

**(PE Office –Generators)**

1. **Supply, installation, testingand commissioning of 02 No.s of 62.5 KVA Diesel-Generator Set with Manual Control including necessary Cabling and Changeover Switch Arrangements**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Description of Item** | **Qty.** |
|  | Supply, installation, testing and commissioning of 02 No.s of 62.5 KVA Diesel Generator set with acoustic enclosure complete with the specifications enclosed in Annexure-I. | 02 no.s |
|  | Supply and laying of 3‐1/2 core 70 sq.mm LT UG cable along with cable glands and lugs for interconnection between alternator and control panel of distances mentioned below:   1. 140mtrs 2. 190 mtrs | 01 no.  01 no. |
|  | Supply and installation of 125 A Changeover switch with enclosure. | 02 no.s |

* **Detailed specifications are provided in Annexure - I**

**Annexure-I**

**Diesel Engine(**As per latest CPCB Norms**):** Multi-cylinder, liquid cooled, developing suitable BHP @ 1500 RPM, under NTP conditions with an overload capacity of more than 10% in every 12 continuous hours of operation with the following accessories:

Battery charging alternator, electric starter motor, Mechanical governor, Flywheel with suitable coupling, radiator with coolant, air cleaner, Exhaust silencer suitable for canopy, expansion bellow, lube oil & fuel filters, fuel feed pump, fuel injection pump, lube oil coolers, Protection System for Low lube oil pressure and High water temperature and microprocessor based controller unit.

**Alternator:**Standard Design 62.5kVA alternator rated at 1500RPM,3-phase, 415V, 50HZ 0.8 PF(Lag), Class H insulation, IP 23 Enclosure, self-excited and self-regulated with voltage regulation of+1% of rated voltage from no load to full load.

**Baseframe:**Sturdy, fabricated, welded construction, Iron Base frame for mounting the Engine, Alternator and Acoustic Enclosure.

**Control panel:**Cubicle typeset mounted Standard control panel with bottom gland plate of 14 / 16 SWG CRCA sheet consisting of Standard Engine Instrumentation, MCB / MCCB, Digital Ammeter, Voltmeter & Hz meter, Current Transformers, Bus bars of suitable capacity with Incoming and Outgoing terminations, Indication Lamps for DG ON & Load ON, Instrument fuses, Emergency Stop - push button with all necessary safeties and display parameters.

**Fuel tank:** Fuel tank ofsuitable capacity with level indicator consisting of inlet & outlet, air vent & drain plug arrangement.

**Battery:** Maintenance free pre-charged batteries with terminals and required connecting leads and suitable cable.

**Acoustic enclosure:** FCRI approved and certified Acoustic Enclosure as per latest CPCB norms.

**Item No: 9**

**(BS&HSS Department)**

1. **Amplifier – 1 No**

|  |  |
| --- | --- |
| **Power Output** | 100W + 100W Max., 80W + 80W RMS at 10% THD |
| **.** | 70W + 70W RMS at 5% THD, 60W + 60W RMS at 2% THD |
| **Output Regulation** | 2 dB, no load to full load at 1kHz |
| **Input Channels** | 6 Ã— Mic 0.6mV/4.7k, 2 Ã— Aux 100mV/470k |
| **Frequency Response** | 65-15,000Hz Â±3dB |
| **Signal to Noise Ratio** | 60dB |
| **Tone Controls** | Bass: -10dB at 100Hz, Treble: -10dB at 10kHz |
| **Outputs** | Preamp 200mV/600 |
| **Speaker Outputs** | 4, 8, 70V & 100V for each zone |
| **Power Supply** | AC: 220-240V 50/60Hzâ€ƒDC: 12V (12V Car Battery) |
| **Power Consumption** | AC: 300VAâ€ƒDC: 6A |
| **Dimensions** | W460 Ã— H155 Ã— D310 mm |
| **Weight** | 14.2kg |

1. **Wall mount speaker – 4 Nos**

**Specifications:**

* High fidelity 2-Way speaker system in compact & elegant black plastic housing.
* Polypropylene Woofer and a Titanium Dome Tweeter.
* SMX-302 low impedance 8W speaker.
* SMX-302T for use on 100V line with power taps of 30W, 15W &7.5W.
* Easy power tap selection through a slotted rotary switch knob at the rear.
* ‘U’ type bracket for convenient wall mounting of the speaker.
* Should be ideal for various background music & general PA application.

1. **1.5 Ton Air Conditioners – 2 Nos**

**Specifications:** Split AC, 1.5 Ton Capacity, 5Star, Guarantee:1 year comprehensive and 4 years on compressor, Aluminium type Condenser

**Item No: 10**

**(BS&HSS Department-Seminar hall chairs-50 Nos)**

**Specifications:**

* + **Seat/ Back Assembly**: The seat and back made up Of 1.2 + 1 cm. thick hot pressed plywood measured and upholstered with fabric and moulded polyurethane foam with PVC lipping all around. The back foam should be designed with contoured lumber support for extra comfort.
    - PCH-7004 (MID BACK) Size : 49.0 cm (w) X 47.0 cm (H)
    - SEAT SIZE : 49.0 cm (W) X 44.0cm (D)
  + HIGH RESILIENCE (HR) POLYURETHANE FOAM:
  + **TUBULAR FRAME**: The tubular frame should be of cantilever type and made of 2.54+0.03cm. x0.2+0.016cm. The Armrest Tube of 2.54+0.03cm. x 0.2+0.016 cm. M.S.E.R.W. tube welded to mainframe. The desklet fitted on the right hand side.
  + **DESKLET ASSEMBLY**: The wooden desklet made of 1.8+0.05cm. thick. Pre-laminated particleboard with 0.15+0.03cm. P.V.C lipping all around.

**Item No: 11**

**(Department of CSE - UPS Batteries)**

1. **Technical Specifications for Procuring UPS Application grade batteries – 40 No’s for the laboratories of Computer Science and Engineering Department with the following specifications**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Specifications** | **Quantity** |
| 1 | Tubular Gel UPS Application grade batteries (12 volts 45AHS) – 40 No’s to equip ARUNPRO10KVA Online UPS and POWERONE 10KVA Online UPS respectively with   * Deep discharge 10C rated. * Minimum 700 cycles life * warranty more than 60 months * Performed for Minimum 80 months * With all necessary Accessories and Battery cables(Including compatible battery stands) * Buy back of old battery (12 V 26 AHS) – 40 No’s at customer site * Including all taxes | 40 No’s |

**Item No: 12**

**Hostels - Kitchen Equipment**

**1. Cost, Supply, erection & commissioning of the following equipment at Boys hostel and girls hostel:**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Item** | **Specifications** |
| I. a | Dining tables(8 Seat) | 8 seated dining Table M.S.Channel framed with bearing mounted moisture proof painted, permanently sealed and revolving type seat bars and level adjusters. Top and seats should be covered with stainless steel sheets of 304 quality, 1mm thickness. |
| b | 30 ltrs Rice & Multi Purpose Cooker | 16 SWG of quality 304 stainless steel. |
| c | 15 Kgs Rice & Multi Purpose Cookers |
| d | 40 Ltrs Milk & Tea Baking Unit | 18SWG of quality 304 stainless steel with safety valves |
| e | Idly Trays(SS)-to suit 30 Kg capacity  Rice Cooker | Stainless Steel Trays which are suitable to use in 30 Kg capacity Rice Cooker |
| f | Double Burner LP Gas Stoves  for ready use | M.S Framed and stainless steel covered double burner stoves for ready use  Dimensions: 2’x4’x1.6’ |
| g | Dosa & Chapati Unit(Big) | M.S Framed and stainless steel covered for ready use.  The top should be 14mm M.S plate  Dimensions: 2.5’x3’x5’ |
| h | Steam Boiler (100 lt) | Steam Boiler (100 Ltr capacity) with multi fuel capability, safety valves and water level indicators and drain outlet valves.  Double jacketed Heavy duty body with inner 14 SWG stainless steel body and outer 8mm M.S Body.  Should be suitable for either LP gas or Fire wood  Should be provided with all safety valves, water level indicators and drain outlet valves. |
| i | Wet Grinders(5 Kgs) | To be used for dosa mix, Idly mix and to prepare chutneys and masala as per requirement. |
| j | Steam Pipe Line | Covered with 6mm Asbestos rope  M.S/SS pipe line of ½” / ¾” of suitable length |
| k | Water Lines for steam boiler and  cookers | Should be provided with 15mm G.I. material for both boiler and cookers |
| l | Gas Pipe Line | As per IS 6044 Part I specifications  5+5 way manifold connection along with regulators, cylinder pigtails & main line regulator shut of controlling valves, clamping etc |

1. **Cst, Supply, erection & commissioning of the following equipment**

|  |  |  |
| --- | --- | --- |
| II. Dinning Crockery (Stainless Steel ware): | | |
|  |  |  |
| a | Dining Plates | Stain Steel Dinning Crockery |
| b | Tiffin Plates |
| c | Water Glasses |
| d | Tea, Coffee & Milk Glasses |
| e | Water Jugs |
| f | Curd & Curry Cups |
| g | Buckets 10” |
| h | Buckets 9” |
| i | Spoons |
| j | Ladle’s No – 3 (Size) |
| k | Ladle’s No – 4 (Size) |
| l | Basins Big(550gms) |
| m | Basins Small (450gms) |
| n | Panja (Hastalu) |

1. **Cost, Supply, erection & commissioning of the following equipment**

|  |  |  |
| --- | --- | --- |
| III. Kitchen Utensils | | |
| a | Tubs (5 Kgs) with lid | Kitchen Utensils (Indalium Tubs) |
| b | Tubs (10 Kgs) with lid |
| c | Tubs (20 Kgs) with lid |
| d | Tubs (30 Kgs) with lid |
| e | Tubs (50 Kgs) with lid |

**ITEM NO: 13**

The undersigned invites separate sealed tenders for availing rents accommodation of various units of Students Amenities Center (SAC) existing in the College Campus.

The details of various units and respective deposits for tender are mentioned below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of the Unit** | **Plinth Area (Approx.)** | **EMD Rs.** |
| 01. | Canteen in the academic zone | 1124 Sq. ft | Rs. 20,000/- |
| 02. | Canteen cum stores in the residential zone | 1080 Sq. ft | Rs. 20,000/- |
| 03. | Xerox & Stationary | 242 Sq. ft | Rs. 5,000/- |

The EMD should be in the form of a D.D in favour of the Principal, JNTUK University college of Engineering payable at Vizianagaram and should be enclosed along with the tender form.

The terms and conditions are mentioned below:

**Terms & Conditions:**

1. The contract is initially for a period of 2 years and the Principal reserves the right to extend the contract.
2. The rent will be increased at the rate of 10% every year.
3. Six months rent is to be paid by the tenants as an advance and kept as deposit and the same will be refunded on evacuation, duly deducting the losses / damages if any to the building.
4. Electrical and Water charges as per consumption will be charged extra.
5. The rent has to be paid by the tenant during the first week of every month in the form of DD / Challan without fails.
6. The electrical and water charges as per consumption and at prevailing rates have to be paid within a week from the date of receipt of demand notice.
7. The college is not going to provide any furniture for the establishment of the unit.
8. The tenant is not entitled to carry out any structural modifications without written permission from the principal.
9. The college administration has every right in its possession to evacuate the unit if any untoward incident come to the notice of the administration and also to evacuate the building at any time as desired by the University / College by serving one month notice.
10. If the tenant does not pay the rent, electrical & water charges in time, the administration has every right to get the building vacated without prior notice.
11. The tenant has to maintain amicable and cordial atmosphere in day-to-day running of the unit, with the staff in general and with students in particularly. The tenant should keep premises clean and tidy.
12. The amenities centre should be invariably closed by 09.00 P.M on all days.
13. The tenant has to bear in mind to maintain the quality of the product at reasonable prices and the Principal or his nominee shall inspect periodically.
14. The college reserves the right to restrict the entry of outsiders.
15. Xerox centre tenant should not provide the items of canteen materials like cool drinks & taste foods etc.
16. Canteen in the academic zone should not supply either stationary or any other item except food items. However, the canteen cum stores in the residential zone can supply stationary, cosmetics, groceries etc in addition to food items required for hostel students and faculty
17. No tenant should provide unauthorized items like cigarettes, Alcoholic drinks etc.
18. The college reserves the right to amend any of the above rules or implement additional rules to maintain smooth function of the centre
19. The Institution reserves the right to cancel the tender without assigning any reason.

**PRINCIPAL**

**AGREEMENT**

I……………………………………………………………………….hereby agree to occupy the following unit with the rent shown below. I will strictly abide by the rules and regulations stipulated in the tender form and to those which may be formulated by the authorities from time to time.

|  |  |
| --- | --- |
| Name of the Unit | Rent quoted per month (during first year) |
|  |  |

Station:

Date:

SIGNATURE OF THE TENDERER

N.B: If the above agreement is not submitted along with the tender, the tender will not be accepted