Ref. No.PUR/09/14/4759-4816 Dated: 20.11.2014

**REGISTERED**

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 **Subject:  Notice Inviting Quotation for Purchase of Equipments**

This institute intends to purchase of Equipments as detailed given below.   Interested firm/parties are requested to send the quotation to the office of undersigned in a sealed cover super scribed **“Quotation for Equipments” on or before 12.12.2014.**

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| --- | --- | --- | --- |
| **Sr. No.** | **Name of the items** | **Qty.** | **Specifications**  |
|  | SINGLE CYLINDER 4 STROKE DIESEL ENGINE TEST RIG TYPE OF ENGINE | 01 | As per Annexure-‘A’ |
|  | 2-STAGE AIR COMPRESSOR TEST RIG TECHNICAL DETAILS | 01 | -do- |
|  | STEAM TURBINE CUT SECTION SHOWING MOVING PARTS | 01 | -do- |
|  | STEAM ENGINE CUT SECTION SHOWING MOVING PARTS | 01 | -do- |
|  | CENTRIFUGAL PUMP TEST RIG PUMP | 01 | -do- |
|  | HYDRAULIC BENCH WATER TRAY SIZE | 01 | -do- |
|  | PELTON WHEEL TURBINE M/C  | 01 | -do- |
|  | UPS  | 08 | -do- |
|  | AGEING OVEN  | 01 | -do- |
|  | BRINELL HARDNESS TESTER(OPTICAL) | 01 | -do- |
|  | VICKER HARDNESS TESTER  | 01 | -do- |
|  | INCLINED PLANE | 02 | -do- |
|  | SHEAR FORCE & BENDING MOMENT | 01 | -do- |
|  | PEDASTAL DRILL | 01 | -do- |
|  | OXY ACETYLENE METAL SURFACING TORCH WITH METAL POWDER | 01 | -do- |

 **Note:     It may be noted that quotation received only through REGISTERED/SPEED post shall be considered. The institute is located in remote area and it takes 5 to 7 days to reach the mail, therefore, quotation be dispatched well in time considering this factor.**

**N.B.:**

1. Rate of ST/VAT if extra must be mentioned clearly.
2. Price quoted must be FOR SLIET.
3. Quotation received later than due date are liable to be ignored/rejected.
4. Other terms and condition for submitting the quotation are given overleaf which must be read carefully before submitting the quotation.
5. We are not responsible for accidental opening of the cover if it is not properly super scribed and sealed.
6. Quotation must be submitted on letter head of the firm with all particular, any other format will not be acceptable.

   **Faculty I/c (Purchase)**

**PTO**

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| --- | --- |
| **DELIVERY** | The rate quoted   must preferably be free delivery/F.O.R. Longowal after allowing the discount, if any. Where quoted extra ad-valorem rate payable, it should be clearly indicated.  Supply should be made within the specified delivery period. |
| **TERMS OF PAYMENT** | Our normal terms of payment is within 30 days after receipt of stores in good condition  by means of cheque/draft/RTGS |
| **TAXES**  | No sales tax concession against Form C and ‘D’ is admissible to this Institute.  However, ‘**Form E’** certificate being an educational institute can be issued if sales tax concession is admissible. |
| **EXEMPTIONS**  | Excise and customs duties are exempted to the institute. The relevant exemption certificate will be issued to the successful bidder only if the excise duty/custom duty is exclusively mentioned in the Quotation.In case the offered items are to be imported, the rates should be quoted in foreign currency on FOB basis. Basic duty as applicable under notification No. 51/96 customs dated 23.07.1996 as applicable shall be borne by the institute. If the price quoted is in foreign currency then payment shall be made through letter of credit against submission of B.G. of Min. 25% value of supply order, if the order value is more than US$ 10,000 or through Telegraphic Transfer (TT) if the order value is less than US$ 10,000 though Nationalized banks. The bank charges outside India should be borne by the Beneficiary. Clearance at customs will be arranged by us but you will assist our clearance agent. In case of indigenous item the price must be quoted in Indian Rupees and 100% payment will be made only after successful installation, testing and commissioning of equipment. **No advance payment will be made.**  |
| **DIRECTOR’S RIGHTS**  | Director, SLIET, reserves the rights of acceptance or rejection of   any or   all   quotations. The discretion for increasing or decreasing of the quantities also rests with him. SLIET also not bind itself to accept does the lowest price.  In case of any dispute, the decision of Director SLIET will be final & binding. |
| **VALIDITY OF QUOTATIONS** | Quotations will be considered valid for 03 months from the date of quotation |
| **CORRESPONDENCE**  | No   correspondence   regarding    acceptance/rejection of a quotation will be entertained. |
| **SAMPLE/BRAND/MAKE/****WEIGHT** | Sample where asked for, will invariably be made available and sent along with the quotations. However, Brand/Make/Weight etc. must be mentioned clearly in the quotations.  Technical literature/pamphlet should also be enclosed. |
| **REJECTION**  | Quotation not confirming to the set procedure as above will be rejected. |
| **DISCOUNT/REBATES** | A special discount/rebate wherever admissible keeping in view that   the supplies are being made for education purpose in respect of Public Institution of national importance may please be indicated.  |
|  | Conditional, telegraphic quotation shall be rejected out rightly. |
|  | SLIET shall not be held responsible for any postal delay in sending or late receipt of quotation. |
|  | Quotation should be free from corrections & erasures.**Faculty I/c (Purchase)** |

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**TERMS & CONDITIONS FOR QUOTATION**

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**ANNEXURE-‘A’**

|  |  |  |
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| **Sr. No.** | **Description with complete specification**  | **Qty.** |
|  |  **Single** **Cylinder 4 Stroke Diesel Engine Test Rig Type of Engine** :Single cylinder, four stroke, vertical water cooled, crank start, diesel engine  developing  5 HP at 1500 rpm (Kirloskar New) **Type of Loading** : *Rope Brake Dynamometer* (Rope Brake arrangement with the brake drum fitted on the engine shaft and provided with cooling water arrangement and spring balance in Kg units.) **Fuel measuring system**: Fuel measuring system consists of a fuel tank, a burette and a three way cock arrangement. **Air intake measuring system: Air** tank fitted with orifice and watermanometer. **Measurement of Heat carried:** It consists of inlet outlet piping with flow control valve, water away by Cooling water meter. Thermometers are provided to measure the inlet outlet temperature of water. **Indicator diagram:** It consists of plotting indictor diagram arrangement. Note: The whole setup is well designed and supported by a good quality painted rigid M.S. Structure with manual.  | 01 |
|  | **2-Stage Air Compressor Test Rig TECHNICAL DETAILS:**   Kirloskar /reputed Make Compressor   Compressor    : Double Stage, Double Cylinder. Capacity: 6.9 CFM max.  Working Pressure    :  Max. 7 kg/cm2 Motor   :   2 HP Crompton/Standard make, Swinging Field type Spring Balance   : 10 kg, Dial type Flow Measurement   : Orificemeter with Manometer   Temperature Measurement:      RTD PT-100 type sensor (4 nos.)   Air Tank   : Capacity 150 Ltrs. with safety valve shut off   valve, Pressure Gauge:  Bourdon Type.   RPM measurement   :  RPM Indicator with Proximity sensor   MCB     : For overload protection Note: The whole setup is well designed and supported by a good quality painted rigid M.S. Structure with manual. | 01 |
|  | **Steam Turbine** Cut Section showing moving parts | 01 |
|  | **Steam Engine** Cut Section showing moving parts | 01 |
|  | **Centrifugal pump test rig Pump:** 1HP Centrifugal Pump. **DC motor:** 1HP.**Supply Tank:** 80 Ltrs. Made of MS with FRP Lining **Measuring tank:** 40 Ltrs. Made of MS with FRP Lining and fitted with piezometer tube & scale. **Piping:** GI/PVC **Control panel:** 1HP Thyristor Drive with Digital RPM Indicator. Electroics Energy Meter .Digital Timer. MCB Load and Line Indicator.Fitted with Pressure Gauge and Vacuum Gauge Digital Timer. MCB Load and Line Indicator.Fitted with Pressure Gauge and Vacuum Gauge. | 01 |
|  | **Hydraulic Bench Water Tray Size -** 2000mm L X 1200mm W X 200mm Ht (Approx) Sump Tank -1200mm L X 700mm W X 300mm Ht   (approx.)  Discharge Measurement Tank  -  600mm L X 400mm W X 250mm Ht   (Approx.) Monoblock Pump - 1 Phase, 230 V AC, 0.5 hp 2800 rpm Digital Stop Watch–1 No. For measuring flow rate  Necessary Piping arrangement with a bye- pass arrangement. Tachometer 1 No. For measuring rpm | 01 |
|  | **PELTON WHEEL TURBINE M/C Specifications:** 1.Pelton Wheel: 300 mm Diameter with 18 Buckets 2.Sump tank capacity : 200 liters High Grade Plastic 3.Flow rate measurement: Orifice meter with Burdon type pressure gauge 4.Pump : Monoblock type, 4 litre/sec, Head 20 mtrs; Motor 5 HP 5.Piping with necessary Valves and Fittings 6.Digital RPM Indicator 7.Detailed Technical Manual and On-site Training | 01 |
|  | **UPS** Output power: 420Watts/700VA, Output Voltage: 230V, Output connections: 3-Indian (3 pin) through battery Backup, 1-Indian(3-pin) through Surge protection, Input Connection: India 3-pin 6A. Topology: Line interactive, Maintenance free sealed Lead-acid battery, Interface port: USB, LED display, Audible alarms, Full time noise filtering, 2 year standard warranty | 08 |
|  | **Ageing Oven** Specification: Chamber size: 16 x 16 x 20inch Made of mild steel Triple chamber, Forced air circulation Fitted with PID temperature controller with auto power regulated thrysterised with timer. Rating: 3 kw/230 volt AC.  | 01 |
|  | **Brinell hardness tester (optical)** Specification: Load-250to 3000kgf stages of 250kgf max. test height-380mm Depth of throat-200mm Max. depth of elevating screw below base-180mm | 01 |
|  | vicker hardness tester Specification: test load-30kg magnification of optical projection-70 max test height-200mm scale least count-0.001 depth of throat-133mm power supply-single phase | 01 |
|  | Inclined Plane: Friction block - l x w x h: each 8x60x5 cm - dead-weight force: each 10-20 N Friction block with provision of attachments of different materials sheet/ plate at lower surface. Inclined plane - length: 1000mm - adjustable angle range: -45°...+45° Weight set - 1x 1N (hanger), 5x 0.1N, 4x 0.5N, 4x 1N, 2x 5N Inclined plane with provision of attachments of different materials sheet/ plate at upper surface. All the components/parts used in equipment must be of international standards. Price breakup is also required.  | 02 |
|  | Shear force & bending moment : Shear Forec & Bending Moment Diagrams: Beam: total length: 1000mm - span: 800mm Separate force gauge with adjustable nut to determine the bending moment and shear force respectively at different points Force gauge: -100...+100N bending moment: -10...+10Nm - shear force: -40...+40N Set of weights and hangers - 3x 1N (hangers) - 12x 1N weight - 9x 5N weight - max. weight load per hanger: 50N, All the components/parts used in equipment must be of international standards. Price breakup is also required.Instruction manual | 01 |
|  | Pedastal Drill:Drilling cap (steel) 25mm/1", 1 HP motor(Branded), Branded V belts, Motor pulley, and rev. switch | 01 |
|  | Oxy Acetylene Metal Surfacing torch with Metal Powder | 01 |