

School of Community Science and Technology  
Indian Institute of Engineering Science and Technology, Shibpur  
Howrah-711 103

Project Code: DRC/GRSE-OTH/SOCSAT/SKM/002/14-15

Ref.: Advt. No. SCT 1192, published in the “Ei-Samay” and “The Times of India, Kolkata”, dated  
19.04.2016

**Notice Inviting Quotations**

Sealed quotations are invited for the supply of **Various Tools and Laboratory Items** as per the following technical specification. The relevant bidding document can be downloaded from the website i.e. **www.iiests.ac.in**. Last date of submission of sealed quotation is **Fifteen (15) days from the date of publishing notice.**

Dean (R & D)

(A. Code DRC-T005/16-17)

*This is downloadable*

**INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY,  
SHIBPUR**



**BIDDING DOCUMENT**

**(Project Code: DRC/GRSE-OTH/SOCSAT/SKM/002/14-15)**

**Ref.: Advt. No. SCT 1192, published in the “Ei-Samay” and “The Times of India, Kolkata”, dated 19.04.2016**

*For Supply of*

***Tools & Laboratory items***

**Under**

GRSE sponsored project entitled as “Skill Development Training Programme for the Unemployed Youth of the locality in Metiabruz”

**School of Community Science and Technology**

## **SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS FOR BIDDERS**

1. Bidders are invited to submit sealed quotation as per the technical specifications for tendered item to Prof. S.K.Mukherjea, HOD, School of Community Science and Technology, Downing Hall (West Wing), IEST, Shibpur, Howrah - 711103.
2. The last date of receipt of tender is **Fifteen (15) working days from the date of publishing notice** between **10.30 a.m. to 3.00 p.m.** except Saturday, Sunday and other public holidays. Quotations received later will not be entertained under any circumstances.
3. Date and time of opening of bid is next working day of the last date of receiving quotation at 2.00 p.m and the place of opening of bid is **HOD's Room, School of Community Science and Technology , Indian Institute of Engineering Science and Technology, Downing Hall (West Wing), Shibpur, Howrah-711 103**
4. Bidders are to submit the quotations in Sealed Cover to the School of Community Science and Technology in the following address:

**Prof. Sujay Kumar Mukherjea**  
**HOD**  
**School of Community Science and Technology,**  
**Indian Institute of Engineering Science and Technology,**  
**Downing Hall (West wing) , Shibpur, Howrah-711 103**

5. All bids should be submitted in ONE-BID (TECHNO-COMMERCIAL BID) Format in covers (Enquiry Number must be mentioned on cover).

TECHNO-COMMERCIAL BID - giving Detailed Specifications, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & Technical Details / Operating Parameters, Pre-Installation Requirements, payment terms, warranty, etc. along with PRICE BID - giving full Prices in Indian Rupees (only) for

- (a) Tendered item.
  - (b) Essential Accessories & Spares.
6. The price quoted should be inclusive of all Taxes, duties and levies. Inclusion of Tax/Levy at a latter stage will not be accepted. Freight, Insurance charges should be clearly indicated.
  7. The materials are to be supplied at a place within IESTS premises between 11.00 a.m. and 4.00 p.m. The tenderer will be responsible for any breakage, damage or defect in the equipment detected subsequently. The supply and installation of the equipment should be completed within a period not exceeding 3 months from the placement of the formal work order or opening of the LC failing which appropriate action will be taken as per university rules.
  8. If the supply is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ ½ per cent per week will be imposed subject to maximum of 5% of the value of work order.
  9. For Indian purchase (*This clause is applicable only for Indian purchase and not applicable for foreign purchase*):

Bills in triplicate should be presented for payment within 15 days of Supply / Completion of work. No Advance Payment can be made. All bills are to be accompanied by Order copies and Challan Receipt. The Order Number is to be noted on both the Challan and the Bill.

**10. Documents to be submitted with the tender:**

Tender Documents/Terms & Conditions in Original duly signed by the Proprietor / Partner/ Director of the Company as a token of acceptance of Terms & Conditions of Tender.

**11. Customs Duty & Excise Duty**

- The Institute will not issue any C or D form availing of concessional Sales Tax/ VAT.
- The Institute will issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.

**12. Indian institute of Engineering Science and Technology, Shibpur, Howrah reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever.**

We accept the above terms and conditions.

Dated:

Signature of  
Bidders/Suppliers

With date & Seal

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## SECTION II: TECHNICAL SPECIFICATIONS

Module Name: Refrigeration and Air Conditioner

Tools	Units	Description
File	(Nos)	Flat file 6" and 12"
Hammer	(Nos)	½ lb
screw driver	(Sets)	1 set with Philips screw driver and 1 set normal
Combination plier (Electrical)	(Nos)	
Line tester	(Nos)	1 small 60w and 1 medium 100w
Soldering Iron	(Nos)	
Hack saw	(Nos)	1 miniature and 1 adjustable
Pipe wrench	(Nos)	No.6" and No.8"
Snip	(Nos)	
Tube cutter	(Sets)	
Tube Bender	(Nos)	½" 2 nos, 3/8" 2 nos, ¾" 2 nos, ¼" 2 nos
Swaging tool	(Sets)	
Pinching tool	(Sets)	
Flaring tool	(Sets)	
Gauge manifold set	(Nos)	
Compound gauge	(Nos)	
Pressure Gauge	(Nos)	
Volt meter	(Nos)	
Ammeter	(Nos)	
Multi meter	(Nos)	
Tong tester	(Nos)	
Halide torch	(Nos)	
Thermometer	(Nos)	
Double end spanner set	(Sets)	
Ring spanner set	(Sets)	
Box spanner set	(Sets)	
Adjustable spanner	(Nos)	6" 2 nos, 8" 2 nos, 12" 1 nos
Nitrogen Cylinder with regulator & adapter	(Nos)	
Gas cylinder with regulator & adapter	(Nos)	1 nos – 2 kg size, 1 nos – 15 kg size
Vacuum pump with motor	(Nos)	
Brazing Kit with flux brazing rod (Silver rod), Gas cylinder and Torch	(Nos)	
Drilling Machine	(Nos)	Portable drill m/c with drill bit 1/8", 1/4", 3/8", 1/2"
Work Table		

<b>Sling Psycho meter</b>	<b>(Nos)</b>	
<b>Steel Locker</b>	<b>(Nos)</b>	
<b>Work Table</b>	<b>(Nos)</b>	
<b>Flaring Nuts</b>	<b>(Nos)</b>	<b>¼" 6 nos, 3/8" 6 nos, ½" 6 nos</b>
<b>Copper pipe (soft drawn)</b>		<b>1/2" – 20 ft, 3/8" – 20 ft, ½" – 20 ft, ¾" – 15 ft</b>
<b>Flexible charging pipe</b>	<b>(sets)</b>	
<b>Copper connecter</b>	<b>(Nos)</b>	<b>¼" 6 nos, 3/8" 6 nos, ½" 6 nos</b>
<b>Copper strainer for RAC</b>	<b>(Nos)</b>	<b>¼" 3 nos, 3/8" 3 nos</b>
<b>Molecular Driver</b>	<b>(Nos)</b>	<b>¼" 2 nos, 3/8" 2 nos</b>
<b>Hand shut-off valve</b>	<b>(Nos)</b>	<b>¼" 2 nos, 3/8" 2 nos</b>

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**SECTION II: TECHNICAL SPECIFICATIONS**

**Module Name: Domestic Electronics Appliances**

<b>Name of Tool/ Equipment</b>	<b>unit</b>
Inverter / UPS trainer	Nos
Battery charger	Nos.
Technicians tool kit	Nos
Digital Multi-meter	Nos.
Analog Multi-meter	Nos
Clip on ammeter	Nos
Soldering iron 16 W and 20 W	Nos. each
De-soldering pump	Nos.
Soldering / de-soldering temp controlled station	Nos.
Spares for micro wave oven	Nos
Hand glove	Pairs
Radiation leakage tester	Nos
Soldering wires	Nos
Soldering pest	Nos
Resistor (680 Ohm, 470 Ohm, 2.2 KOhm, 1.2 KOhm, 3.3KOhm, 1KOhm, 5KOhm, 10KOhm, 22KOhm, 15KOhm)	Nos
Capacitor (0.1MF, 0.01MF, 0.22MF, 10MF, 100MF)	Nos
Diode - IN 4007 IN 4148 IN 4150 IN 914B IN OA79	Nos
Transistor - BC 107 2N3055 2N3773	Nos
Driver Transistor - BC 107 BC 548	Nos
SCR - 2N6240 2N669 612 604	Nos
BJT - 3N3001 2N2955 2N3055	Nos

<b>UJT - 2N2646</b>	<b>Nos</b>
<b>Triac - BT136</b>	<b>Nos</b>
<b>DAC Ic - 0808</b>	<b>Nos</b>
<b>ADC Ic - 0804</b>	<b>Nos</b>
<b>POT - 470 KOhm</b>	<b>Nos</b>
<b>Relay - 12V</b>	<b>Nos</b>
<b>Coil - 100MH</b>	<b>Nos</b>
<b>FET - BFW10</b>	<b>Nos</b>
<b>O-PAM Ic - 741</b>	<b>Nos</b>
<b>Inductance - 13.2 MH</b>	<b>Nos</b>
<b>Cutter</b>	<b>Nos</b>
<b>Knife</b>	<b>Nos</b>
<b>Tester</b>	<b>Nos</b>
<b>Electric Wires</b>	<b>Mtrs</b>
<b>Battery - 06V</b>	<b>Nos</b>
<b>Fuse (Lamp, 3AMP, 5AMP)</b>	<b>Nos</b>
<b>Screw Driver Set</b>	<b>Nos</b>
<b>Tweezers</b>	<b>Nos</b>
<b>IC - 78 and 79</b>	<b>Nos</b>
<b>IC - LM 723</b>	<b>Nos</b>
<b>LED (3v or 5v)</b>	<b>Nos</b>
<b>3 pin socket</b>	<b>Nos</b>
<b>HUK wires</b>	<b>Mtrs</b>
<b>Bread Board</b>	<b>Nos</b>
<b>Power Supply (0 v to 30 v) (Positive and Negative)</b>	<b>Nos</b>
<b>Vero Board</b>	<b>Nos</b>
<b>Plastic Box 4"/3"</b>	<b>Nos</b>
<b>7 segment LED</b>	<b>Nos</b>



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## SECTION II: TECHNICAL SPECIFICATIONS

### Module Name: Plumbing

Description	Unit
Traditional & ratchet type Pipe Die Set - 1/2" to 1" & 1 1/4" to 2"	Set
Pipe Wrench (Size No.8) & (Size No.12) Chain wrench 1"---4"	Set
Pipe Vice (Size No.2) & (Size No.3)	Nos
Wooden Bench (3' x 6' height - 4')	Nos
Hammer Sledge (2 pound) & (1 pound)	Nos
Flat Chisel (1') & Point Chisel (1')	Nos
Flat Punch (1/2') & Point Punch (1/2')	Nos
Rawel Jumper Bit set (6 mm) & (8 mm)	Nos
Pipe Wheel Cutter (upto 2" cutting)	Nos
Spanner Set (Double End)	Set
Spirit Level (length 2 feet)	Nos
Tube Level (1/4" Hose White)	Mtr
Screw Spanner (Size No.12)	Nos
Screw Driver (1 1/2 feet) & (1 feet)	Nos
Grip Plier (266 - 10)	Nos
Pocker (Tapuria 871)	Nos
Cutting Pliers - Taparia	Nos
Hacksaw Frame with Blade	Nos
Try Square (small)	Nos
Plum Bob (Small)	Nos
Cocking Chisel (1 1/4")	Nos
Blow lamp	Nos
Trowel Mason (small) & (Big)	Nos
Spade with handle	Nos
Mortar Pan	Nos
Hand Drilling Machine	Nos
Cleaning Brush & Painting Brush (2")	Nos
Oil Can (Small)	Nos
Chain Wrench (upto 3")	Nos
Hand Bending Machine (1/2" to 1")	Nos
Ladder (10 feet height)	Nos
Measuring Tape (5m)	Nos

GI Pipe 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"	m
PVC Pipe 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"	m
CI Pipes 4", 6" 2 M length	Nos
Lead and lead wool	kg
Stone Ware Pipe 4"	Nos

White Wash Basin	Nos
White I.W.C Cistern	Nos
White E.W.C (Normal)	Nos
White `p' Trap 4"	Nos
White `s' Trap 4'	Nos
White kitchen Sink	No
White Urinal (Flat)	No
White Urinal (magnon)	No
1/2" Bibcock (l) & (s)	Nos
1/2" Pillar cock & Angle Cock	Nos
1/2" Ball Valve	Nos
1" Gate Valve, Globe Valve & Check Valve	Nos
1" NRV	Nos
1" Foot Valve & 2" Foot Valve	Nos
1/2" G.I. Elbow	Nos
3/4" G.I Elbow	Nos
1" G.I Elbow	Nos
1/2" 3/4" G.I. Tee	Nos
1"x 3/4", 1/4" x 1/2", 1"x 1/2"	Nos
G.I Reducer Elbow 1"x 3/4", 1" x 1/2"	Nos
G.I Reducer Elbow 3/4"x 1/2"	10
G.I Coupling 1/2" x 3/4" x 1"	Nos
G.I Straight Reducer 1" x 3/4" x 1 1/2"	Nos
G.I Bend 1/2", 3/4", 1"	Nos
G.I union 1/2", 3/4", 1"	Nos
All types pasted thread each	Nos
Solvent Cement	Litre
Shellac	Nos
Thread Ball	Nos

Reducing Socket 1"x 3/4" , 3/4"x 1/2"
Plain socket 1/2", 3/4", 1"
Nipple 3"x1/2", 6"x1/2", 1"x1/2" 3"x1/2", 6"x3/4", 1ft x 3/4", 1ft x 1/2", 1ft x 3/4"
M.S. FLANGE (100 X 150)
END CAP (1/2", 3/4", 1FT)
PLUG (1/2", 3/4", 1FT)
SPUN YARN (MADE FROM JUTE)
FLAGE PIPE (150 MM X100 MM)
CAST IRON PIPE ( 100 150
DOUBLE SOCKET P.V.C. PIPE (3", 4")
SOCKET(SINGLE) P.V.C PIPE (3",4")

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**SECTION II: TECHNICAL SPECIFICATIONS**

<b>WELDING</b>
HAND GLOVES
APRON LEATHER
SPARK LIGHTER
HACKSAW FRAME(ADJUSTABLE)
SPANNER SET (DOUBLE ENDED) - TAPARIA
OUTFIT SPANNER & SPINDLE KEY FOR GAS WELDING OUTFIT
BENCH SHEAR HAND CAPACITY UP TO 5MM THICK SHEET
ARC WELDING TABLE WITH PROTECTED WELD FILTER GLASS/FIRE PROOF SCREENS FOR ARC WELDING
OXY-ACETYLENE GAS WELDING AND CUTTING PLANT MOUNTED ON TROLLEY WITH OXY-ACETYLENE GAS CYLINDERS, PRESSURE REGULATORS, HOSE CONNECTIONS, GAS WELDING TORCH WITH NOZZLE NO.1 & 2,3 & 5 AND GAS CUTTING TORCH WITH 1.2 &1.6 MM NOZZLES.
CONSUMABLES, OXY-ACETYLENE GASES, RAW MATERIALS, FLUXES AND FILLER WIRES (AS REQUIRED)
FIRE FIGHTING EQUIPMENT- FIRE EXTINGUISHER (
TIG WELDING MACHINE COMPLETE, 300 AMPS AC / DC WITH WATER COOLED TORCH
GAS WELDING TABLE WITH FIRE BRICKS
ELECTROD (LOCAL) 4mm dia (8 swg) boxes
ELECTROD (FEROSFEED) 3.15mm dia(10 swg)
M.S.FLATE (50X6)MM (PER KG)
M.S.FLATE (25X3)MM (PER KG)
M.S.C.C. FILLER ROD 3MM (PER KG) dia 1.2
SANITARY CAKE (125GM)
SANITARY CAKE (65GM)
HACK SAW BLADE (14") - 350x25x1.25
HACK SAW BLADE (12")
OXIGEN GAS(7 QMS)
ACCYTILINE GAS(P.H)
ARGON GAS
MSCC MIG WIRE DIA 1.2MM
BRAZING FILER ROD DIA 3MM
BRONZO TACTICS BRAZING FLUXES

<b>MS BLACK SHEET 1.5MM (THICKNESS)</b>
<b>MANUAL SHOULDERING IRON (WEIGHT 300GM)</b>
<b>BLOW LAMP</b>
<b>SHOULDER (40/60)</b>
<b>DELUDE HCL</b>
<b>ZINC GRANULAR</b>
<b>HELMET WITH COLOUR GLASS FITTED</b>
<b>HAND SHIELD WITH COLOUR GLASS FITTED</b>
<b>COLOUR SAFETY GOGGLES</b>
<b>WIRE BRASS</b>
<b>CHEEPING HAMMER</b>

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**SECTION II: TECHNICAL SPECIFICATIONS**

**List of Tools & Equipment for module Electrician Industrial**

Name of Tool/ Equipment	Quantity (nos)
Measuring tape 5 meters	NOS
Connector, 6"	NOS
Screw Driver 8" 10"	NOS
Combination Pliers 6", 8"	NOS
Neon Tester	NOS
Nose Pliers 6", 8"	NOS
Crimping tool (SMALL SIZE)	NOS
B.P.Hammer 1/2Kg,	NOS
Fermer chisel 1 ½"	NOS
Power drilling Machine 6 mm	NOS
DE Spanner Set 8 Nos	NOS
Digital/Hand driven Megger 500V	NOS
Line Tester	NOS
Hydrometer	NOS
Wire gauge	NOS
Centre punch	NOS
Earth tester	NOS
AC drive with 3 phase Induction motor	NOS
MCCB	NOS
Wire Stripper	NOS
NO/NC push buttons	NOS
Star-delta starter WITH SINGLE PHASE PREVENTER	NOS
DOL starter	NOS

Tong Tester	NOS
Single phase transformer 2 KVA	NOS
3 phase squirrel cage Induction motors 5HP	NOS
Tachometer	NOS
CT and PT	NOS
Rubber Hand gloves	pair
<b>DG Set 1800 VA</b>	NOS
Cable(Different Types) 1/0.44" PVC Single stand Cu Wire 2.5 mm <sup>2</sup> PVC Single A1.Wire	25 m each
Cable Trays (Ladder and punched)	NOS
Lug (Crimping Spade Lug Aluminum 10mm <sup>2</sup> and 16 mm <sup>2</sup> )	NOS