

State Staff Training & Research Center

(Vocational Education and Skill Development Deptt., U.P.,)

GITI campus, Aliganj, Lucknow

TENDER

Tender Notice No. SSRTC/TE/2014-15/01

**Supply of Tools/equipment, Machinery and
Furniture for Different Trades. (Fitter, Electrician and
Mech. R.A.C.)**

:OFFICE ADDRESS:

State Staff Training & Research Center

GITI CAMPUS, ALIGANJ, LUCKNOW UTTAR PREDESH

E-mail-sstrclko@gmail.com

GENERAL INSTRUCTION:-

Tender No. SSRTC/TE/2014-15/01 for purchase of Hand Tools, Machinery and Furniture's items has been divided in three parts said as Part (A)-Hand Tools, Part (B)-Machinery item and Part (C)-Furniture Item. Tenderer /Bidder can participate more than one part or any part of the Tender.

The tendering firms are required to purchase the tender document by payment of tender fee Rs 1000/-. Tender form can be obtained by post also by making a payment of **Rs.50/- extra for postal charges**. The payment of tender fee (Including the postal charges wherever applicable) can be made by **Bank draft or by cash**. It is clarified that no other mode of payment shall be acceptable. The bank draft should be made payable to **Director (Technical), State Staff Training & Research Center, Aliganj, Lucknow**, payable at Lucknow and should be crossed. In case the tenderer is desirous to get tender documents by post, and then he should send a self addressed envelope of size – 12" x 10" along with the request for tender form as cited above.

The tendering firms are required to quote only top most original brands for each individual item in at least three original similar brands like Taparia, JK, Everest, Jhilani, Gadore, Pye, Focus, Mitoyo, Precise, L&T, LG, Samsung, Voltas, Crompton, and Bajaj. No local Brands (not original) will be accepted. Quantity of items may be increased or decreased as per rules. All pages of the submitted documents in the tender/Bid will be signed with stamp by the Proprietor/Authorized person and paging will be mentioned in first page like Index.

(1) Documents to be submitted (Technical Bid):-

The tendering firms are required to submit the following required documents by under given sequence with mentioning documents name in top of documents first page, failing which their tender will be ignored.

- (a) A Photocopy of Tender purchasing receipt.
- (b) Details of EMD.
- (c) The proof of being a registered firm with **Govt. Dept.** indicating their VAT No. by submitting such certificate.
- (d) The proof of having minimum ten years' experience of supplying of tools/ equipment and machinery, to technical institutes including GITIs.
- (e) Manufacturing/Dealer/Sub Dealer certificate of the quoted machinery Items.
- (f) The firm should submit leaflet/Drawing/Figure/Photos/literature indicating the name of the manufacturing organization, Make/Brand etc.
- (g) The tenderer has to give a affidavit that he is not black listed by any Govt. Organization/ Undertaking/ other organizations.
- (h) Copy of **PAN No. issued by Income Tax Department** to tendering firm.
- (i) In case of UP State Firm enclose the copy of valid Trade Tax registration certificate and Trade Tax. Clearing certificate in case of outside of UP Firm enclose the copy of valid CST registration certificate.
- (j) Copy of balance sheet of last three financial year shall be enclosed. Average turn over of last three years should not be less than 1.00 cr, in the case of supply of Tools/equipment, machinery and furniture.

(2) **Tender / Bid Price:-**

- (a) The contract shall be for the full quantity as described. Corrections, if any shall be made by crossing and rewriting with signature and date.
- (b) All duties taxes for destination freight charges, installation charges, insurance and other levies payable on the tools /equipment, machinery and furniture shall be included in the total price.
- (c) Sales Tax in connection with the sale shall be shown separately. **Any firm showing rates inclusive of VAT, its offer will be summarily rejected.**
- (d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- (e) The prices shall be quoted in Indian Rupees only.
- (f) The **Fixed Deposit / NSC / Bank Guarantee of Nationalized Bank** for earnest money Part (A) Hand Tools Rs.1.30 Lakhs, (B) Machinery Rs.3.00 Lakhs, (C) Furniture Rs.1.0 Lakh Total Rs. 5.30 Lakhs in favour of **Director (Technical), State Staff Training & Research Center, Aliganj, Lucknow** as mentioned in the tender should be enclosed with the offer otherwise the offer against tender shall be rejected. The earnest money will be refunded in case offer is not accepted. The earnest money should be enclosed in a separated envelope super scribing the amount of earnest money on the top right corner of the envelope. This envelope should be placed inside the envelope in which the **technical offer** is sent.

3. Each Bidder can submit Tender for part A, B, C or all and their Technical Bid should be in one envelope but Financial Bid in separate envelope of each parts of the tender.

4. **MODE OF FILLING TENDER:-**

- 1- The firm should submit the offer indicating the brand name with the specification and rate. It should be clearly cited that the rate quoted is of which Brand. The firm should as far as possible attached the pamphlet/ leaflet of item / items being quoted. It should be ensured that specification given in the offer and in the leaflet and the literature should tally with each other. Only if the items with Brand name or make specified in the given list are not available the rates of the ISI/ISO marked or equivalent marked items with brand name should be quoted.
- 2- The firm has to submit their offer in the two separate sealed envelopes.
 - (a) **First Envelope** (termed as technical offer) containing detail technical specification /Model/Brand/Make of the items along with Documents / Papers of formalities and **earnest money. (Excluding Rates.) in prescribed format for Technical Bid.**
 - (b) **Second Envelope** (termed as financial offer) containing rates in words and figures of each item indicating Brand name with the specification should be quoted. as per format **in prescribed format for Financial Bid.**
- 3- If there are any discounts in rates it should be quoted after deducting the discount. Rates should be given in words and figures both. There should not be any cutting or overwriting.
- 4- The envelope should be of thick paper and must be properly sealed with sealing wax along with stamp. It is clarified that the unsealed envelope will not be entertained.

- 5- If any tenderer does not follow the instruction regarding filling up technical and financial offer, such offer will be summarily rejected and no correspondence will be done.
- 6- Only those items which are available on the ready stock should be quoted since the supply is to be made immediately.

NOTE:-

Both the envelope should be super scribed clearly as “**Technical Offer**” and “**Financial Offer**” and both the envelopes will be kept in one cover indicating tender no. and date of opening. The outer cover (main envelope) should also be sealed properly as cited above. The cover indicating technical offer will be opened before the representatives of the firm on the date of opening of tender and the financial offer will be opened later if there technical offer is accepted.

5. VALIDITY OF TENDER / BID :-

Tender/Bid shall remain valid for a period not less than 90 days after the dead line date specified for submission.

6. EVALUATION OF TENDER / BID:-

The Purchaser will evaluate and compare the Tender/Bid determined to be substantially responsive i.e. which.

- (a) Are properly signed and
- (b) Confirm to the terms and conditions, and specifications.

The Tender/Bid would be evaluate separately for each item. Any type of Taxes shall not be taken into account in evaluation.

7. Award of Contract:-

The Purchaser will award the contract to the bidder whose Tender/Bid has been determined to be substantially responsive and who has offered the lowest evaluated Tender/Bid price.

- (a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any Tender/Bid and to cancel the bidding process and reject all Tender/Bid at any time prior to the award of contract.
- (b) The bidder whose bid is accepted will be notified of the award of contract by the **Purchaser prior to expiration of the Tender/Bid validity period. The terms of the accepted offer shall be incorporated in the purchase order.**
- (c) If suppliers fail to supply as per order their E.M.D. will be forfeited.
- (d) Tender should produce ISO/ISI/dealership certificate with manufacturer’s Firm mail id by that Director (Technical) can verify.
- (e) Supply should be taken after verification of sample by our committee members.

8. **PROCEDURE:-**

- (a) You or your representative may be present at the time of opening of the tender along with your authority letter.
 - (b) You have to deposit 10% of security deposit of the total value of the order placed. It should be in the form of **(a) Fixed Deposit receipt of any Nationalized Bank. (b) National Saving Certificate (NSC) (c) Bank Guarantee of Nationalized Bank** pledged to the **Director (Technical), State Staff Training & Research Center, Aliganj, Lucknow** and is refundable to you after 6 month of the satisfactory supply erection and commissioning work of the supplied Tools Equipment, Machinery and Furniture Items for which you have to produce the clearance to the Institute. The supply contract agreement will be signed on Rs. 100/- non judicial stamp paper between bidder and purchaser.
9. Payment supplied material check and verify by committee constituted by Director (Technical). Payment will be made after TDS deduction.
10. Normal commercial Warranty/ Guarantee shall be applicable to the supplied goods.
11. You are requested to submit your Tender/bid latest by 12.00 P.M. 02-09-2014.
12. The **Tender Technical Bid** will be opened in presence of Purchase committee on 02-09-2014 at 2:00 P.M. and **Financial Bid** will be opened on 05-09-2014 at 11:00 am.
13. In case of supply of Tools/equipments and Machinery which is required to be installed at site Tenderer has to quote rates accordingly for complete work.

REMARKS:-

The jurisdiction for the purpose of litigation arising if any will be civil court, Lucknow (U.P.)

We look forward to receive your **Tender/Bid** and thank you for your interest in this Project.

Delivery Period: - 15 Days from the date of order.

Place of Delivery: - **State Staff Training & Research Center, Campus: Government Industrial Training Institute, Aliganj, Lucknow (U.P.)**

Website name: - www.vppup.in Email.ID- ssstrclko@gmail.com

Enclosure Annexure (Format of Tender/Bid)

(Purchaser)
Director(Technical)
State Staff Training & Research Center,
Campus: Government Industrial Training Institute,
Aliganj, Lucknow (U.P.)

Format for Technical Bid

S. No.	Name of Items	Brand/Make/ Model/ Specification	Other Remarks

FORMAT OF FINANCIAL TENDER/BID

Sl. No.	Description of tools/equipments , machinery and furniture	Brand/Make/ Model/ Specification/	Quantity	Unit Rate (in Indian Rs.)	Trade Tax/VAT/Other Taxes	Total	
				In Figure	in Figure	In Fig	In Words

We agree to supply the above goods in accordance with the technical specifications within the period specified in the invitation for **Tender/Bid**.

We also confirm that the normal commercial warranty/guaranty of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name-.....

Address-.....

Tel. No.....

Fax. No.....**Email**-.....

Check List

- | | |
|--|--------|
| 1-Have you purchased the tender document.
(A photocopy of the receipt may be attached) | Yes/No |
| 2-Have you submitted the tender security as prescribed in the tender document. | Yes/No |
| 3-Have you included all charges payable payable to you in your tender and the rates are given by you F.O.R site. | Yes/No |
| 4-Have you mentioned your PAN Certificate of Income Tax Deptt. | Yes/No |
| 5-Have you quoted the delivery period correctly. | Yes/No |
| 6-Have you agreed with all the terms and conditions of the documents, if not mention clearly. | Yes/No |
| 7-Have you enclosed U.P.S.T /C.S.T registration certificate. | Yes/No |
| 8-Have you enclosed 10 experience certificate of supply in Govt. deptt./ITI's | Yes/No |

कार्यालय:-प्रादेशिक स्टाफ प्रशिक्षण एवं शोध केन्द्र,
(व्यावसायिक शिक्षा एवं कौशल विकास विभाग, उ०प्र०)
परिसर-राजकीय औद्योगिक प्रशिक्षण संस्थान, अलीगंज, लखनऊ।

(टेण्डर संख्या-SSRTC/TE/2014-15/01)

निविदा विज्ञप्ति

महामहिम राज्यपाल महोदय, उ०प्र० की ओर से निदेशक(प्राविधिक), प्रादेशिक स्टाफ प्रशिक्षण एवं शोध केन्द्र, अलीगंज, लखनऊ द्वारा केन्द्र के विभिन्न व्यवसाय (फिटर, विधुत एवं मैकेनिक आर०ए०सी०) के साज-सज्जा (टूल्स, उपकरण, मशीनरी एवं फर्नीचर आदि) की आपूर्ति हेतु सील बन्द निविदायें आमंत्रित की जाती हैं। निविदाकर्ता को तकनीकी संस्थानों, राजकीय औद्योगिक प्रशिक्षण संस्थानों सहित आपूर्ति का कम से कम 10 (दस) वर्षों का अनुभव आवश्यक है। निविदा की अन्य शर्तें, विवरण, धरोहर राशि एवं सामग्री सूची आदि निविदा प्रपत्र में अंकित हैं। निविदा के विवरण निम्नवत हैं जो कि विभागीय वेबसाइट -www.vppup.in पर भी उपलब्ध है।

- | | | | |
|----|----------------------|---|---|
| 1- | टेण्डर प्रपत्र शुल्क | - | रुपये 1,000/- एवं रुपये 50/- डाक शुल्क अतिरिक्त। |
| 2- | अर्नेस्ट मनी | - | (अ) हैण्ड टूल्स-रु० 1.3 लाख, (ब) मशीनरी-रु० 3.0 लाख, (स) फर्नीचर-रु० 1.0 लाख। |

निदेशक (प्राविधिक), प्रादेशिक स्टाफ प्रशिक्षण एवं शोध केन्द्र, लखनऊ के पक्ष में किसी भी राष्ट्रीयकृत बैंक से डिमाण्ड ड्राफ्ट/एफ०डी०आर० के रूप में निविदाकर्ता टेण्डर (अ),(ब),(स) में से किसी एक या एक से अधिक में भाग लेने हेतु निर्धारित अर्नेस्ट मनी का पृथक-पृथक ड्राफ्ट टेण्डर वाइज अलग-अलग लिफाफे में संलग्न कर भाग ले सकता है।

- | | | | |
|----|--------------------------------------|---|--|
| 3- | टेण्डर बिक्री की अन्तिम तिथि एवं समय | - | दिनांक: 02-09-2014 (पूर्वान्ह 10 बजे से मध्यान्ह 12:00 बजे तक) |
| 4- | टेण्डर जमा की अन्तिम तिथि एवं समय | - | दिनांक: 02-09-2014 अपरान्ह 02:00 बजे तक। |
| 5- | टेण्डर खोलने की तिथि एवं समय | - | दिनांक: 02-09-2014 अपरान्ह 03:00 बजे। |
| | (तकनीकी बिड) | | |
| 6- | टेण्डर खोलने की तिथि एवं समय | - | दिनांक: 05-09-2014 पूर्वान्ह 11:00 बजे। |
| | (वित्तीय बिड) | | |

- 7-वेबसाइट का नाम-www.vppup.in

अधोहस्ताक्षरी को बिना कारण बताये निविदा के समस्त अथवा किसी अंश को निरस्त या संशोधित करने का अधिकार सुरक्षित होगा। निविदा प्रपत्र/विवरण वेबसाइट www.vppup.in पर भी उपलब्ध है। उपरोक्त उल्लिखित वेबसाइट से भी निविदा प्रपत्र/विवरण डाउनलोड किया जा सकता है। ऐसी स्थिति में निविदा शुल्क बैंक ड्राफ्ट निविदा के टेक्नीकल ऑफर के साथ संलग्न करना अनिवार्य होगा।

निदेशक(प्राविधिक)
प्रादेशिक स्टाफ प्रशिक्षण एवं शोध केन्द्र,

प्रेषक,

निदेशक(प्राविधिक)
प्रादेशिक स्टाफ प्रशिक्षण एवं शोध केन्द्र
उ०प्र०, अलीगंज, लखनऊ।

सेवा में,

सूचना निदेशक,
सूचना एवं जनसम्पर्क विभाग, उ०प्र०,
लखनऊ।

पत्रांक:—

/शोध केन्द्र/निविदा विज्ञप्ति/साज-सज्जा/2014

दिनांक:06.08.2014

विषय:—साज-सज्जा की आपूर्ति हेतु निविदा विज्ञप्ति प्रकाशन के सम्बन्ध में।

महोदय,

संलग्न निविदा विज्ञप्ति संख्या: SSRTC/TE/2014-15/01 को राष्ट्रीय स्तर के हिन्दी एवं अंग्रेजी के कम से कम दो-दो समाचार पत्रों में नियमानुसार प्रकाशित कराते हुए प्रकाशन की प्रति इस कार्यालय को उपलब्ध कराने का कष्ट करें। सम्बन्धित विज्ञप्ति छ:—छ: प्रतियों में सी०डी० सहित आपको आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्नक:—उपरोक्तानुसार।

भवदीय,

(सै० अली हुजूर)
निदेशक (प्राविधिक)

प्रतिलिपि:—निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित—

1. सचिव महोदय, व्यावसायिक शिक्षा एवं कौशल विकास विभाग, उ०प्र० शासन को सादर अवलोकनार्थ।
2. निदेशक, प्रशिक्षण एवं सेवायोजन, उ०प्र०, लखनऊ।
3. निदेशक, व्यावसायिक परीक्षा परिषद, उ०प्र०, अलीगंज, लखनऊ को इस अनुरोध के साथ संलग्न निविदा विज्ञप्ति एवं निविदा प्रपत्र वेबसाईट www.vppup.in पर प्रकाशित/अपलोड कराने का कष्ट करें।

संलग्नक:—उपरोक्तानुसार।

(सै० अली हुजूर)
निदेशक (प्राविधिक)

SSTARC								
LIST OF HAND TOOLS (PART - A)								
Sl. No.	Description of tools/equipments , machinery and furniture	Quantity	Specification	Model/Brand	Earnest Money	Trade Tax/VAT	Total	
					(in Indian Rs.)	in Figure	In Fig	In Words
1	134a refrigerant cylinders	4Nos.	5kg		280			
2	3-point D.C. starters	2 nos.	220 V, D.C., 3 HP		80			
3	4-point D.C. starters	2 nos.	220 V, D.C., 3 HP		50			
4	8051 micro controlled kit with simple application	1no	8051mc		N			
5	A.C drive with microcontroller	1no			N			
6	A.C. Ammeter	02nos.	M.I. 0-15 -25A, 0-10-20 A(digital)		56			
7	A.C. Ammeter	02nos.	M.I. 0-5A, 0-500MA (digital)		56			
8	A.C. Voltmeter centre zero	02nos.	100-0-100 m volt		7			
9	Adjustable pipes tape set BSP with Die set	01 no.	cover pipe size 15,20,25,32,38,50 mm		90			
10	Adjustable Spanner	01 no.	38 cm long		28			
11	Allen key	02 sets	set size 1.5mm to 6.4mm		6			
12	Altimeter	1 no.	COVERING PA2000/PA500,		240			
13	Ammeter AC/DC portable, precision grade teak wood case, leather belt.	10Nos.	o to 30 amp		50			
14	Ammeter AC/DC portable, precision grade teak wood case, leather belt,	10 Nos.	o to 5 amp		50			
15	Ammeter	02nos.	MC 0-15 - 25A		7			
16	Ammeter	02nos.	MC 0-5 A		7			
17	Anemometer	2 No.	(Vane type)		50			
18	Anemometer dial type	1 No.	1-10,000 meter/min.		50			
19	Angle plate	04 nos.	10X20 cm		240			
20	Anvil 50 KG with Stand	02 nos.			360			
21	Arm Strong type bet holder	04 nos.	LH		26			
22	Arm strong type bit holder	04 nos.	RH		26			

23	Arm strong type bit holder	04 nos.	straight		26			
24	Asbestos gloves	4 pairs	Standard		10			
25	Bacnet / Lonwork / Web monitoring tool Software	1 No.	VERSION<1.0/01/2001>UPEDU EX SRS		600			
26	Bath impregnating	02nos.	complete set		760			
27	Battery charger with variable output 1 KW	1 no.			240			
28	Bearing puller 3 legs	02 nos.	(120 mm)/flexible		9			
29	Bench grinder motorized 200 mm dia, 1/2 hp motor	02 nos.			800			
30	Bench vice	44 Nos.	12 cm jaws		2036			
31	Bench vice	4 Nos.	75 mm. jaw		24			
32	Bend snips	06 nos.	250/300mm		N			
33	Bending spring external type for copper tube 3 to 6 mm. Dia	4 Sets			16			
34	Blow lamp 0.5 Ltr	06 nos.	Brass Body		40			
35	Borign and counter shinking tool	04 nos.	PATENTED FED 19,1918(US-1256865A)		32			
36	Box spanner set	02 sets	6-25 mm set of 8 with tommy bar		15			
37	Box spanner	4 sets	size 6.4 to 10 mm.		24			
38	Bradwal	40 nos.	15mm with handel		4			
39	Brake test arrangement with two spring	03nos.	balance of 0 to 25 kg. rating		208			
40	Brinell Hardness Tester	02 no.	100 Kg/Sq.m		2000			
41	C. Clamp	04 nos.	200 mm, 150 mm and 100 mm		40			
42	C. Clamp	04 nos.	150 mm		14			
43	C. Clamp	08 nos.	100 mm		28			
44	Caliper Hermaphrodite	11 nos.	15 cm		6			
45	Capillary plug gauge	4 Nos	100MM-200MM*(38-600°C CQPIUARY MOC-55-304/55-316		8			
46	Carbide wear block	02 each	01 mm- 02 mm		35			

47	CBT / simulating software on commercial refrigeration system	1 Set.	500MB AVailag DISK SPACE, 1024X768 SCREEN RESOFUTION, KEY BOORD AND MOUS, HIGH- SPEED INTERNET CONNECTION		400			
48	CBTs on Railway/Bus/Air-craft/ Marine A/Cs.	1 Set			1000			
49	Centre punch	8 Nos.	length 100 mm.		12			
50	Chisel	08 nos.	25 mm x 6 mm		14			
51	Chisel Nose	12 nos.	9 mm round		14			
52	Chisel cold flat	12 nos.	19 mm		17			
53	Chisel cold	12 each	9mm crosscut and 9mm diamond		24			
54	Chisel cold firmer	04 nos.	25 mm x 200 mm		6			
55	Chisel cold Flat	13 nos.	Length 12 mm		25			
56	Chisel flat	6 Nos.	length 150 mm.		6			
57	Clamp toolmaker	04 nos.	5cm and 7.5 cm set of 2		14			
58	Clamp"C"	04 nos.	5 cm		14			
59	Comparators Stand With Dial Indicator LC	01 no.	0.01 mm		260			
60	Components of a typical water mill	1set			N			
61	Components of solar lighting systems	As required	for 1kw		N			
62	Components of SWH and solar cookers for assembling and dismantling	As required	2kw/5Lt		500			
63	Components of typical small hydro power unit	1set	Standard		N			
64	Compound gauge with recalibration set screw.	12 Nos	diameter 63 mm, scale vacuum 76 mm. pressure 15 kg/sq.cm		48			
65	Copper bit soldering iron	08 nos.	0.25kg		31			
66	Counter Boring and Counter sinking tool	02 nos.			32			

67	Crimping tool	02 sets	6mm		2			
68	Crimping tools heavy duty	10 nos.	12-24mm		108			
69	Cup board for keeping of Drawing Board, T-Squares, set- Squares sets, French curves sets and Mini - Drawing	2	Standard		720			
70	Cup board for keeping of Models and charts	2	Standard		720			
71	Current transformer	04nos.	Primary 0-10-20, secondary - 5A		10			
72	Cut Out, reverse current, over load, under voltage relays	1 no each	6-30A/150v		N			
73	D.C Ammeter	02nos.	MC 0-1A		7			
74	D.C. drive with microcontroller	1no	2HP/220v, DC		N			
75	D.C. Milliammeter	03nos.	0-500 ma, digital + analog		7			
76	DC power supply.	03nos.	0 - 250 volt, 5 amp		320			
77	Depth Micrometer	01 no.	0-100 mm, 0.01 mm		40			
78	Desoldering gun	08nos.	35 watt		1200			
79	Dial test indicator	02 nos.	0,01 mm with magnatic base		160			
80	Dial thermometer remote control, armred capillary dial	2 Nos	75 mm.-50 Deg. C to + 50 Deg. C.		20			
81	Dial type manometer	1 No.	0-10,000 meter/minutes		40			
82	Dial Vernier Caliper	01 no.	0-200mm LC 00.05 MM(Universal type)		180			
83	Different makes of solar lighting systems	6 nos.	LED/CFL/U tube		4200			
84	Digital Dial Test Indicator	01 no.	0.01mm with magnetic stand		280			
85	Digital Multi meter	03nos.	(3 1/2 digits)		52			
86	Digital Outside Micrometer	01 no.	0-25 mm		180			
87	Digital Vernier Caliper	01 no.	20 cm		180			
88	Discrete component trainer	1 no	Standard		N			
89	Divider	1 1nos.	15 cm spring		6			

90	Domestic Appliances:- Electric Hot Plate	2 nos.	1500 watt, 220 volt with temperature control		N			
91	Dot punch	20 nos.	10 cm x100 mm long(Approx)		6			
92	Drawing Board	60	1000x700mm					
93	Drawing Board	30 nos.	(2' X 1 1/2')		2700			
94	Drill chuck	02 no	12 mm		9			
95	Drill hand brace	06 nos.	0 to 100 mm		200			
96	Drill Machine hand	02 nos.	0 to 6 mm capacity		7			
97	Drill S.S. Twist Block	06 nos.	2 mm, 5 mm 6 mm set of 3		23			
98	Drill twist	03 set	T/S 6 mm to 25 mm x 1.5		1800			
99	Outside and Inside Caliper	04 nos.	Driver 150 mm		1			
100	Dry Nitrogen gas cylinder	2Nos.	2 stage regular or commercial N 2 in cylinder with drier unit and 2 stat ragular 7 meter cub		400			
101	Electric Drill Machine Portable	02 nos.	6 mm capacity		10			
102	Electric Iron	2 nos.	1200 watts, 230 volt with temmpérature control		N			
103	Electric Kettle	2 nos.	1750 watt, 230 volt		N			
104	Electrical drill portable with chuck and key,	4 Nos.	capacity 6.4 mm.		560			
105	Electrician connector, screw driver	40 nos.	100 mm insulated handle thin stem		16			
106	Electrician screw driver	40 nos.	250 mm insulated handle thin stem		56			
107	Engineers try Square (knife wedge)	02 nos.	150 mm Blade		11			
108	Extractor stud EYZ out	04 nos.	Standard		24			
109	Fan AC	2 nos	230 volt 1200 mm.		N			

110	Fan coil unit with water valves	2Nos.	(2&3 way)		900			
111	Feeler gauge	02 sets	10 blade		6			
112	File cant saw smooth	08 nos.	length 15 cm		24			
113	File card	12 nos.	Standard		12			
114	File feather edge smooth	08nos.	length 15cm		5			
115	File flat rough	12 nos.	length 150 mm		14			
116	File Flat 2 nd cut	12 nos.	length 200 mm		44			
117	File Flat 2 nd cut	42 nos.	length 250 mm		121			
118	File Flat 2 nd cut smooth.	27 nos.	length 250 mm		152			
119	File flat bastard	08 nos.	length 250 mm		14			
120	File flat Smooth	08 nos.	length 250 mm		29			
121	File flat 2 nd cut	06 nos.	length 300 mm		N			
122	File flat, fine double cut,	8 Nos.	length 150 mm.		22			
123	File half round 2 nd cut	16 nos.	length 150mm		76			
124	File half round 2 nd cut	08 nos.	length 200 mm		40			
125	File half round 2nd cut	06 nos.	length 250 mm		80			
126	File half round bastard	04 nos.	length 250 mm		46			
127	File round 2 nd cut	22 nos	length 200 mm		23			
128	File round bastered	08 nos.	length 300 mm		12			
129	File square 2 nd cut	04 nos.	length 150 mm		22			
130	File square 2 nd cut	12 nos.	length 250 mm		31			
131	File square, fine double cut	8 Nos.	length 150 mm.		22			
132	File swiss type needle	04 set	set of 12		20			
133	File triangular smooth	06 nos.	length 150 mm		25			
134	File Triangular 2nd cut	12nos.	length 200 mm		46			
135	File, flat medium double cut,	8 Nos.	length 200 mm.		24			
136	File, half round medium, double cut	8 Nos.	length 200 mm		24			
137	File, half round, fine double cut	8 Nos.	length 150 mm.		22			
138	File, round, fine, double cut	8 Nos.	length 150 mm.		22			

139	Filler, gauge	2 Set	0.05 mm. -1 mm.		22			
140	Fin straightener/ fin comb	2Nos.	Standard		4			
141	Fire buckets	12 nos.	10liter		12			
142	Fire extinguisher (commercial)	04nos.	Carbon Tetra Chloride		N			
143	Fire extinguisher powder type	4Nos.	ABC dry powder type 2kg capacity		80			
144	Fire Extinguisher 5 kg Dry Powder Type	04 nos.			N			
145	Firmer Chisel	40 nos.	wood 12 mm		24			
146	First aid box.	04 nos.	Standard		20			
147	Flaring tool set	10Sets	single type for tube 4.7 to 16 mm OD		50			
148	Flat tong	04 nos.	300mm		80			
149	Flux meter	2 nos.	0-1 Wb/Sqm.		144			
150	Fly Press	01 no	4T Capacity		N			
151	Four way manifold with gauges	2Nos.	Standard		60			
152	Frequency meter	02nos.	(Analog & Digital)		100			
153	Frequency meter	1no	(Digital)		N			
154	Gas cutting torch with different noses	1no.	0.5-1.5mm		740			
155	Gas cylinder truck two wheel type	2 No.	Standard		400			
156	Gas leak detector for halogen gas	4 Nos.	Standard		160			
157	Gas welding table with fire bricks	1 nos.	Standard		400			
158	Gauge plug single ended	01 set	05 to 55 by 5mm set of 11 pcs.		300			
159	Gauge slip as johnson metric set	01 set	Standard		800			
160	Gauge snaps Go and No Go	01 set	25 to 50 mm by 5 mm set of 06 pcs.		280			
161	Gauge Telescopic	01 no.	up to 150 mm		24			
162	Gauge, wire imperial	06 nos.	4-12 SWG		6			
163	Geometrical box for Engineering Drawing	2	Standard		120			
164	Geyser	1 no.	25 litre, 230 volt(Storage type)		N			

165	Gimlet	40 nos.	6 mm		24			
166	Grease gun	02 nos.	1/2 Lt		19			
167	Growler (Internal + external)	02no.each	1-16A, 12-24 Segment		300			
168	Hacksaw frame	6 nos.each	200 mm, 300 mm adjustable		15			
169	Hacksaw frame fixed	42 nos.	30 cm.		63			
170	Hack-saw tubular metal frame adjustable	8 Nos.	300 mm		16			
171	Hair dryer	2 no.	1500 W, 220 Volt		N			
172	hammer ball pane	24 nos.	0.22 kg with handle		22			
173	Hammer ball pane	35 nos.	0.45 kg with handle		42			
174	Hammer Exeter type	12 nos.	0.40kg		39			
175	Hammer nylon	4 Nos.	300 gms.		12			
176	Hammer, ball peen	40 nos.	0.75 kg. with handle		36			
177	Hammer, cross peen	40 nos.	115 grams with handle		4			
178	Hand blower portable complete .	2 No.	1/10 HP motor & other attachments		60			
179	Hand grinder small	1 No.	150mm		32			
180	Hand groover	2 nos. each	4mm,5mm		30			
181	Hand hammer with handle	04 nos.	01 kg		14			
182	Hand Reamer adjustable cover	01 set	max 9,12,18mm-set of 3		44			
183	Hand Reamer taper	02 set	4-9 mm set of 6 or 4-7mm set of 4		24			
184	Hc refrigerant cylinders/ disposable containers	4Nos.			32			
185	Heating kit with infra red bulb	1 Set.	(200 watt. capacity)		40			
186	Heavy duty screw driver	40 nos.	200 mm		48			
187	Hermetic compressor	1No.	1.5 TR (AC)		100			
188	Hermetic compressors	4 Nos.	(1/2hp.)		280			
189	Hermetic compressors	4 Nos.	(1/6hp.)		180			

190	Hydrometer	05 sets	(1100-1300) sp.gr.at27*c		5			
191	Hygrometer	02 No.	25-80% of atm.		10			
192	Immersion Heater	2 nos.	7 750@1000@1500 WATT& 230 Volt Geyser 25 litre, 230 volt		N			
193	Inside caliper	5 no.s	15 cm spring		6			
194	Interchangeable ratchet socket set	02 sets	with a 12mm driver		9			
195	Inverter	02nos.	1 KVA input 12 volt DC, output 220 volt AC with 12 battery		800			
196	Iron, soldering	08 nos.	25 watt, 65 watt, 125 watt each		55			
197	K.W. Meter	03nos.	0-1-3 Kw		128			
198	Knife double bladed Electrician	40 nos.	length4"		20			
199	Knife edge file smooth	08 nos.	15 cm		39			
200	L –Allen key set	4 sets	size 1.5 to 6.4 mm.		24			
201	Laboratory type induction coil	1 no.	6 volt to 800- 10,000 volt		260			
202	Ladle	04 nos.	24 cm		3			
203	Lapping plate	3 No.	250x200 mm		100			
204	Lathe Tool Bit	20 each	HSS 6 mm,8mm,10mmX1 00mm		100			
205	Lathe tools	04 nos.	HSS Tipped set		14			
206	Leather apron	4 nos	Standard		21			
207	Leather gloves	4 pairs	Standard		5			
208	Leg vice	04 nos.	10 cm Jaw		240			
209	Letter punch	02 no	3mm set		10			
210	Line tester	8 Nos.	500 volt. Heavy duty		12			
211	Lux meter	1 no.	1-100LUX, MANUEL 1.5 TIMER/SEC/,9VAET DC BATTERY		144			

212	Machine vice	02 no	10cm		200			
213	Machine vice	02 no	15 cm		300			
214	Mallet hard wood	05 nos.	0.50 kg		10			
215	Megger	2 Nos	1000 Volt.		180			
216	Megger	03no.each	500 volts + Earth megger 0-30 Ohm		6			
217	Melting pot	02 nos.	200mm dia		20			
218	Micrometer in side	01 no.	25-50 mm		10			
219	Micrometer, outside measurement	12 Nos.	0-25 mm.		80			
220	Micron vacuum gauge capable of reading	4Nos.	up to 20 microns		1600			
221	Microwave Oven	2 no.	20 Lt. convection		N			
222	Mill Voltmete	07nos.	r M.I.O-500V A.C. 0-250-500V		4			
223	Mini-Drafters	60	600mm		960			
224	Mixer/Grinder (Bajaj)	2 no	200w/220v		N			
225	Models and charts for Engineering Drawing	1	Standard		40			
226	Multi meter	07nos.	0 to 1000 M Ohms, 2.5 to 500 volt		39			
227	Multimeter –	5 Nos.	Analog type		24			
228	Multimeter –	7 Nos.	Digital type		60			
229	Neon Tester	40 nos.	2pin/400v, A/c		16			
230	No frost refrigerator using HC refrigerant	4Nos.	300 liter capacity		120			
231	Number punch set	02 no	3mm		10			
232	OHP	07 nos.	latest configuration		300			
233	Oil can	04 nos.	0.12 litre		5			
234	Oil can pressure type	4 Nos.	1 liter		16			
235	Oil cane	02 nos.	0-25 ltrs		6			
236	Oscilloscope dual Trace	1 no	30 MHZ		N			
237	out side caliper	5 no.s	15 cm spring		6			

238	Out Side Micrometer	08 nos. 06 nos	0-25mm, 25-50 mm with 25 mm test piece		120,270			
239	Out side Micrometer	04 nos.	50-75 mm with 50 mm test piece		240			
240	Oven stoving	02nos.	2kw		320			
241	Over Head slide projector	01no	Standard		150			
242	P.L.C.Trainer kit	1no	6/4 input-output micro type		N			
243	Phase sequence meter	04nos.	400v,A/c,3φ		152			
244	Philips screw driver	4 sets	Complete set in leather case		24			
245	Piercing pliers & piercing valves both with access fittings	8Nos.each	6-18 mm		480			
246	Pillar electric drill machine Capacity 12mm with Motor chuck & Key	02 nos.			240			
247	Pincer	40 nos.	150 mm		64			
248	Pinch off pliers/crimping pliers tool	4 Nos.	6-18 mm.dia		24			
249	Pinch off tool	8 Nos.	For copper tube 6 to 18 mm.dia		8			
250	Pipe bending tool, lever type with degree indicator	4 Sets	for tube OD 6.4 to 16 mm		88			
251	Pipe cutter wheel type	01 no.	6 mm to 50 mm		17			
252	Pipe cutter miniature	10 Sets	for copper tube 3 to 16 mm. Dia		20			
253	Pipe cutter to cut dia	05nos.	pipes above 5 cm dia		120			
254	Pipe cutter to cut pipes	06nos.	upto 5 cm dia		34			
255	Pipe cutter with build in reamer and space cutter	8Nos.	for copper tube 3 to 32 mm. Dia		200			
256	Pipe vice	02 nos.	size 100 mm		148			
257	Pipe wrench	01 no.	size 30 cm		5			
258	Pipe wrench	01 no.	size 40 cm		6			
259	Pipe wrench	4 Nos.	size 250 mm		28			
260	Pipe wrench	4 Nos.	size150 mm		24			
261	Pitot tube & inclined tube manometer	2Nos.			40			
262	Plane, smoothing cutters,	06 nos.	50 mm		76			
263	Plier flat nose	08 nos.	100mm		10			

264	Plier insulated	44 nos.	150 mm		62			
265	Plier long nose	06 nos.	150 mm		10			
266	Plier round nose	08 nos.	150 mm		10			
267	Plier side cutting	40 nos.	150 mm		62			
268	Pliers combination insulated	4 nos,6 nos.	150mm, length 200 mm.		24,44			
269	Pliers flat nose	4 Nos.	length 150mm.		12			
270	Pliers long nose	4 Nos.	length 200mm.		12			
271	Portable forge with hand blower	1 nos.	450 mm		1100			
272	Portable hand drill (electric)	04 nos.	0 to 6 mm		200			
273	Potential transformer	03 nos	0-230-400V/110V		44			
274	Pressure gauge with recalibration set screw	12 Nos.	Diameter 63 mm, scale 0 to 35 kg/sq.cm.		48			
275	Pressure testing tank with lighting arrangement, pressure gauge double stage	1 No.	(0 to35kg/sq.cm.)		760			
276	Puller 2 legged, with flexible arm	2 No.	arm300 mm		18			
277	Puller 3 legged, with flexible	2 No.	arm 120 mm		10			
278	Pulley puller 3 legs adjustable	02 nos.	(250 mm)		36			
279	Punch centre	40 nos.	150 mm x 9 mm		6			
280	Punch hole for cutting gasket	4Nos.	4.7 to 16 mm. dia		20			
281	Punch Hollow	2nos	6mm to 19 mm set of 5		96			
282	Punch Round	2nos	3mm to 4 mm set of 2		8			
283	Quick couplers, process tube adaptors	4 pairs for each tube	for ¼", 3/8" tubes		200			
284	R.L.C. Bridge	2 Nos	2K Ohm/0-5Henry/100 mfd.		6			
285	Radius gauges (Assorted)	20 nos.	0.6-08mm,1-6mm,8-25mm		78			
286	Ratchet spanner	8 Nos.	6.4 mm. sq. reversible		16			
287	Rawl plug tool and bit	04 sets	6mm		12			
288	Reamer parallel set of 5	02 no	12-16 mm		52			

289	Reamer parallel set of 5	01 no.	12-16 mm		52			
290	Refrigerant cylinder	4 Nos.	capacity 05 Kg.		120			
291	Refrigerant cylinder	2 Nos.	capacity 2.5 Kg.		40			
292	Refrigerant cylinder	4 Nos.	capacity 20 Kg.		280			
293	Relays - Over current, under voltage, etc. 3 volt, 10 amp.	03nos.	3v/10 Amp.		288			
294	Rheostat	14nos.	0-10 ohm- 5Amp, 0-100 ohm-5Amp, 0-250 ohm-1Amp., 0-300 ohm-3A		38			
295	Ring spanner	2 set	off set 19 mm to 31.8 mm.		18			
296	Ring spanner	6 Sets	off set 6 mm to 16 mm.		24			
297	Rotary compressors	4 Nos.	1 TR		360			
298	Roung tong	02 nos.	300"		6			
299	Rule steel	48 nos.	30 cm to read matric		10			
300	Rule wooden 4 Fold	08 nos.	60 cm					
301	Safety goggles	42 nos.	Standard		42			
302	Safety charts and posters	as req.	Standard		40			
303	Saw tenon	40 nos.	250 mm		30			
304	Schraeder valve core removal tool	1Nos.			60			
305	Scissor, gasket cutting stainless steel	4 Nos.	length 25 mm.		12			
306	Scissors blade	08 nos.	150 mm		2			
307	Scraper 3 corner	12 nos.	15 cm		6			
308	Scraper flat	12 nos.	15 cm		6			
309	scraper half round	12 nos.	15 cm		6			
310	Scraper, triangular blade removable	2 Nos.	60 mm.		12			
311	Screw driver	40 nos.	100 mm		16			
312	Screw Driver	50 nos.	15 cm		25			
313	Screw driver, plastic handle	10each	10 mm. tip length 200-250mm.		14			

314	Screw driver, plastic handle	10 each	6 mm. tip length 100-150mm.		10			
315	Screw driver, plastic handle	4 sets	3 mm. tip length 100 and 150mm. Insulated		6			
316	Screw gauge pitch	02 no	0-6mm		14			
317	Scriber	40 nos.	150 mm x Ø4 mm (Knurled centre position)		6			
318	Sensor thermometer	4Nos.	(digital)		100			
319	Serviceman thermometer in metal case	4 Nos.	(-30 to+30 Deg. C)		12			
320	Set of combination	04 nos.	30 cm		640			
321	Set- Squares sets	60	150mm		300			
322	french curves sets of 12 Pcs.	60 Set.			300			
323	Shell and tube, DX chillers (small)	2Nos.	Standard		600			
324	Sine bar	01 no.	125 mm		30			
325	Sine bar	01 no.	250 mm		30			
326	Single phase power factor meter,	02nos.	0-30A, 230V, (Analog + Digital)each		40			
327	Sleeve Drill moarse	02 set	0-1,1-2,2-3		14			
328	Sling psychrometer mounted on aluminum back scale	4 Nos.	(-50 Deg. c. to +50 Deg. C).		48			
329	Small capacity shell and tube condenser	2Nos.	5ton whith Cu tubing only		400			
330	Small Car A/C Kit with driving arrangements	2 Nos.	Swite,alto,santro,w agon r		500			
331	Snip bent	06 nos.	150 mm		40			
332	Snip straight	06 nos.	150mm		40			
333	Snipper sheet metal straight nose	2 No.	200 mm.		8			
334	Socket set, ratchet, reversible	4 sets	12.7 mm. square drive with extension, 4.7 to 31.2 mm.		100			
335	Socket set, ratchet, reversible	2 Set	1/2 square drive with extension, 3/16 to 11/4 BSW & SR		120			

336	Solder bit/soldering iron hatchet type	04 nos.	250g		60			
337	Soldering Iron exchangeable	10 Nos.	copper tip 65 watts.		30			
338	Spanner adjustable 15 degree	12 nos.	150mm		12			
339	Spanner D.E. metric standard set	06 nos.	(6mm to 20 mm)		40			
340	Spanner Metric - Set of 10 Pcs.	12 set	6 to 26mm		96			
341	Spanner, double ended	2 set	19 mm to 31.8 mm.		10			
342	Spanner, double ended	6 sets	6 mm to 16 mm.		24			
343	Spirit level precision metallic	1 No.	200 mm		10			
344	Spirit level metal	02 no	15 cm		16			
345	Square adjustable	04 nos.	15 cm blade		14			
346	Stepper motor with digital controller	03 nos	1 ϕ ,220v,1/10HP		N			
347	Stock and die set for	09nos.	20 mm to 50 mm G.I. pipe		96			
348	Stock and dies conduit	05nos.	(12 mm to 30 mm)		72			
349	Stone carborandum	04 nos.	15cmx5cmx5cmx4		9			
350	Stone oil	08 nos.	15cmX5cmX2.5cm		14			
351	Stop watch	2 Nos	Standard		4			
352	Straight edge	04 nos.	45 cm steel		40			
353	Straight scribe	42 nos.	15 cm		17			
354	Straight snips	06 nos.	250/300 mm		36			
355	Surface plate	04 nos.	45X45cm ci/granite		240			
356	Surface Roughness comparison plates	01 no.	N1-N12 Grade		160			
357	Swage block	01 no	Standard		600			
358	Swaging tool, punch type	4 Sets	set of size, for tube 4.7 to16 mm OD.		36			
359	Swaging tool, screw type with adapter	4 Sets	set of size for tube 4.7 to 16 mm OD		20			

360	Synchronous scope meter	2nos.	Ac motor, centre zero type		N			
361	T –Allen key set	4 sets	size 5/32 & 1/8		12			
362	Tacho meter with stop watch (Analog + Digital)	03nos.	0-3000rpm (Anlg)		64			
363	Tachometer digital, multi range	4 Nos	0 to 3000 rpm. Portable, small size in leather case		120			
364	Tap and dies complete set in box	02 no	upto 16mm		144			
365	Tap and dies complete set in box B.A	02 no	widthworth 5/8SAE		40			
366	Tape, measuring	2 No.	10 m graduation in mm.		10			
367	Tape, measuring	4 Nos.	2 m graduation in mm.		60			
368	Taps and dies complete set in box	02 nos.	3-18 mm set of 10		156			
369	Thermometer	02 nos.	0 to 100°C		3			
370	Thyrisor /IGBT controlled	1 no	AC motor drive with VVVF Control,3 phase 2 HP		N			
371	Thyristor/IGBT controlled	1 no	DC motor drive 1 HP with tachogenerator feedback arrangement		N			
372	Tong tester/Clamp meter	03no.each	0-100 Amp.AC(multi range analog + digital)		26			
373	Tong-tester	8 Nos.	0-10-30 amps. 0-500 volts (Clamp on Multimeter)		96			
374	Torque wrench	2 set	300 mm, 12.7 mm. square drive right and left hand		70			
375	Trammel	02 nos.	Standard		39			
376	Transistor tester	2Nos	for NPN/PNP type		2			
377	Try Square	42 nos.	10 cm blade		71			
378	Try Square	06 nos.	150 mm blade		23			

379	T-Squares	60	1000mm		840			
380	Tweezers	08 nos.	100 mm		3			
381	Twist drill	02 set	S/S1.5 mm to 12 mm by 1/2 mm		240			
382	Twist drill	02 set	s/s 8mm to 15 mm by 1/2mm		300			
383	Two way manifold with gauges	2Nos.	Standard		28			
384	Universal scribing block	04 nos.	22 cm		200			
385	Valve key –T	8 sets	handle – 4.7 & 6.4 mm. sq.		8			
386	V-block pair	04 nos.	7cm and 15cm with clamps		200			
387	Vernier bevel protactor	02 no	upto 150mm dia.		160			
388	Vernier Caliper	01 NO.	150mm LC 0.02MM		50			
389	Vernier Caliper	06 nos.	20cm		300			
390	Vernier Caliper	3 No.	length 250 mm.		40			
391	Vernier height gauge	2 No.	250 mm.		50			
392	Vernier Height gauge	02 nos.	30 cm		720			
393	Vernier Micro meter in side	02 no	0-25 mm					
394	Vice grip pliers	02 nos.	Standard		10			
395	Vice hand	08nos.	50 mm jaw		40			
396	Vice table	12nos.	100mm jaw		120			
397	Video Camera with Stand	04 nos.	FULL HD 50-megapixel color sensor,100x zoom WIDE ANGLE LENS HANDYCAM WITH BUILT IN PROJECTOR-(SONY)		600			
398	Visi cooler	1 No.	270 Ltr.		1800			
399	Voltage stabilizer Input -1	03nos.	50 - 230 volt AC, Output 220 volt AC - 1 KVA		100			
400	Voltmeter AC/DC portable,	10 Nos.	precision grade teak wood case, leather belt, 0 to 5 amp.		50			

401	Wall charts,	05nos. each trade	Transparencies and DVDs related to the trade- RAC,Electrician, Fitter		400			
402	Wall Clock	05 nos.	ajanta		20			
403	Washing Machine	1 no.	6.2 kg automatic		N			
404	Water cooler,	2Nos.	storage type, instantaneous type		500, 300			
405	Wattmeter, multi range	2Nos	up to 1 KW		100			
406	Wattmeter, multi range	2 Nos	up to 5 KW		140			
407	Wheat stone bridge complete with galvanometer and battery	03nos.	0-10mA, 6v DC		150			
408	Wheel dressor (1 for 4 unit)	01 no	Standard		7			
409	White Board	07 nos.	(4ft X 3 ft.) ferrous base sheet to hold		560			
410	Wing Compass	04 nos.	25.4 cm or 30cm		7			
411	Wire gauge standard	02 no	4 to 42 swg		3			
412	Wire gauge metric and Whitworth	2 Set	0.1-1.2mm		10			
413	Wire stipper	40 nos.	20 cm		120			
414	Wooden/Fibre Rule	40 nos.	12"		32			
415	Wording File	08 nos.	15 cm smooth		26			
416	Work bench for fitters with two vices	2	100mm		2400			
417	Wrench adjustable	8 Nos	length 150 mm		32			
418	Wrench adjustable	8 Nos.	length 200 mm		24			
419	Wrench adjustable	4 Nos.	length 225 mm		24			

SSTARC
LIST OF MACHINERY ITEMS (PART-B)

Sl. No.	Description of tools/equipments , machinery and furniture	Quantity	Specification	Model/Brand	Earnest Money	Unit Rate	Trade Tax/VAT	Total	
					(in Indian Rs.)	(in Indian Rs.)	in Figure	In Fig	In Words
420	Cold storage plant	01 No.	complete with all controls and accessories including cooling tower and water treatment plant capacity 15000k.cal/hr. or working trainer model/simulator.		12000				
421	transformer portable complete with meters and controls.	2Nos.	Variac input 230 volt output 400 volt. amp.		44				
422	(I)-Evacuating & refrigerant charging station comprising *(II)-Evacuating & charging station as above but fitted with weighing scale	02 Set.	a-Rotary two stage vacuum pump and motor (with gas ballast & anti suck back) b-Manifold with gauges & valves and capable of pulling vacuum up to 50 microns of Hg and with provision of connecting to a micro level vacuum gauge c-Graduated charging cylinder with provisions for temperature correction and all necessary isolating valves *(II) up to 2 kg. in lieu of (b) above and with accuracy of +/- 1gram, for charging hydrocarbons.		600				
423	A.C.B.	01 no.	5KVA		7000				
424	A/C system with digital scroll compressor-twin/triple compressor complete with microprocessor control boards	01 No. complete	Standard		2000				

425	Air compressor,	02 No.	two stage for oil-less dry air, with rust proof tank assembly, heater and control max. Pressure. 10 kg/sq. cm cap. 45 liter, Motor 1 HP		420				
426	Air conditioning plant, (Direct system)	2Nos.	Direct system with Air cooled condenser, complete with all controls including humidity control etc. capacity 15000 k.cal/hr.or working trainer model/simulator. Alternatively, a packaged Air-conditioner of similar capacity.		400				
427	Air conditioning plant, (Indirect system)	2 Nos	Indirect system with Water cooled condenser,chiller,		10000				
428	Arc welding transformer	02 nos.	single fase 200 Aamps (with cable electrode holder and all other		10000				
429	Automatic Ice cube	2Nos.	m/c capacity 5kg/hr		1960				
430	Bottle cooler,.	1 No.	200 liters,carrying whith HFC-134a&reciprocating compressor		3000				
431	Circulating water pump (small)	2Nos.	0.5h.pwith stainless steel tank capacity20lit with in let/outlet provision		400				
432	CNC Trainer Lathe machine:	01 no.	FANUC/SINUMERC base machine is directly linked to P.C., Center height - 100 mm (min.), distance between center - 200 mm (Min.), Swing over carriage- 60 mm (min.), Longitudianal travel - 300 mm (min), Spindle Speed with back gear - 40 to 2000 RPM, with linear and circular interpolation, minimum 8 tool offset with turret.		500				

433	Components of car AC systems(full kit)	1No.each	a-wobble plate compressor with mounting brackets b-serpentine evaporator c- parallel flow condenser d- hoses, tubes, receiver, expansion valve e-electrical components & wiring Harness		18000				
434	Condensing unit with open type compressor air cooled condenser controls	02 Nos.	capacity 3000 kcal./hr.		1115				
435	Condensing unit with open type compressor evaporative condenser controls etc. capacity 3000 kcal./hr.	02 Nos.	capacity 3000 kcal./hr.		500				
436	Cut model of 3 phase induction motor	01 no	3 phase		600				
437	Cut model of D.C. compound motor	01 no. each	5 hp		N				
438	Cut model of watermill and hydro power	01 each	Standard		800				
439	D.C. compound generator,	01 no.	2.5 KW 250 V, with control panel including field rheostat, voltmeter, ammeter and circuit breaker		N				
440	DC shunt generator,	01 no.	2.5 KW, 220 V with control panel		640				
441	Deep freezer	01 No.	165 liter – 18 Deg. C., ¼ HP		640				
442	Descaling pump set	2 No.	with stainless steel impeller and housing complete with motor 1 HP and accessories.		600				
443	Digital I.C. Trainer	01 no			500				
444	Drilling machine pillar type of base plate size 470x294mm	06 nos.	0-20mm capacity 86 TO 3360 RPM		N				
445	EER Machine i.e. VRV & VFD air conditioning system,	01 No.	small capacity.With inverter control system		720				

446	Electrical machine trainer:-	01 no.	Suitable for demonstrating the construction and functioning of different types of DC machines and AC machines (single phase and three phase). Should be completed with friction brake dynamometer, magnetic break, instrument panel and power supply units		1000				
447	Function generator	1 no	Function Generator Tutorial - Afrotech Mods		1800				
448	Ice candy unit	2 Nos.	complete with stainless steel tank. Mould box. Thermocole insulated sun mica body, agitator compressor, motor etc. Temperature, pressure refrigerant control gauges, motor, pipe fitting etc. 3000 K Cal/hr. or working trainer model/ simulator.		N				
449	Lathe General purpose all geared type	04 nos.	Centre Height 150mm between centres 1000 mm with all accessories and attachment		2000				
450	Linear I.C. Trainer	01 no	Standard		14000				
451	Motor AC wound slip ring type	01no	5 HP 400 volts, 3 phase, 50 cycles with starter and switch		N				
452	Motor AC series type	1 no.	230 V, 50 cycles, 1/4 HP with mechanical load.		N				
453	Motor AC single phase	1 no	230 V, 50 cycles, 1/4 HP capacitor type with starter switch 1 HP		N				
454	Motor AC squirrel cage, type	02 nos	3 phas 400 volt, 50 cycles, 2 to 3HP with star delta starter and triple pole iron clad switch fuse.		N				

455	Motor DC compound wound	02 nos.	220 volt 2 to 3 HP with starter and switch		N				
456	Motor generator (AC TO DC) consisting of:	02 no.	Motor induction squirrel cage, 7 HP 400 Volts, 50 cycles, 3-Phase with star delta starter and switch directly coupled to DC shunt generator 5KW 400 Volts, and switch board mounted with regulator, air circuit breaker, ammeter, voltmeter knife blade switches and fuses, set complete with case iron and plate, fixing bolts, foundation bolts and flexible coupling.		1600				
457	Motor generator (DC TO AC) consisting of:	04nos.	Motor shunt 5HP, 440 Volts with starting compensator and switch directly coupled to generator AC .3.5 KVA , 400/230 Volts, 3-phase, 4 wire, 0.8 PF 50 cycles with exciter and 1 switch board mounted with regulator, circuit breaker, ammeter, voltmeter, Synchronous scope meter frequency meter, knife blade switch and fuses etc. Set complete with cast iron bed plate, fixing bolts, foundation bolts and flexible coupling.		1500				
458	Motor series DC	1 no.	220 volt , 0.5 to 2 HP , coupled with mechanical load		3280				
459	Motor shunt DC	2 nos.	220 volt , 2 to 3 HP, coupled with magnetic break		560				
460	Motor universal	1 no	230 volts, 50 cycles 1/4 Hpwith starter/switch.		1600				
461	Oil testing kit	1 no.	11 to 100 kv		N				

462	Oxy- Acetylene welding set	3 set complete	complete with cylinders regulators welding torches with difference nozzles		6000				
463	Pedestal grinder, double ended	05 nos.	wheel dia 200 mm. 3000 rpm. 3 Phase		700				
464	Power Saw machine	02 no	1H.P ,400v,50cy,3ph capacity ,9" high speed haksaw with aeessieres		1800				
465	Prefab PUF insulated panel for cold room 6 x 4.5 x 8 cft.	01 complete set.	maintaining temp. 0 deg. to +5 deg. C. Condensing unit complete with semi sealed compressor duly mounted on base plate & charged R-22 gas. Evaporator unit complete with expansion valve & other accessories. Electrical control panel complete with digital temperature & pressure indicator & other electrical controls. Fabrication/ Erection/Insulation completed by supplier.		12000				
466	Reciprocating compressor with provision of capacity control etc. for demonstration,	2Nos.	capacity 9000 kcal./hr		1800				
467	Recovery unit	2Nos.	for 134a refrigerants with recovery cylinder.		1160				
468	Recovery unit for CFC refrigerants with recovery cylinder.	2 Nos.	CFC & 134a		1160				
469	Recycling unit (Optional)	1 No.			900				
470	Refrigerator 170 liter	4Nos.	using 134 A refrigerant		560				

471	Refrigerator, compression type	2 Nos.	300 liters double door, doubles compressor system.		1080				
472	Reverse cycle AC/Heat pump	2Nos.	3000 kcal/hr. or 4500 kcal/hr		900				
473	Semi-hermetic compressor	2 Nos.	(1/2hp.)		200				
474	Spray outfit, 'V' twin,	02 No.	with motor ½ HP. delivery up to 120 liter free air pressure up to 3 Kg/sq.cm. with spray gun and fitting.		600				
475	Starter for 3 phase, 400 volt, 50 cycles, 2 to H.P.,A.C. motors Direct on line starter Star delta starter with manual, semi& auto and automatic Auto transformer type starter	1 no each	D.O.L-2HP, Y/Δ7.5HP, Auto Transformer starter-10HP		N				
476	Transformer single phase,	3 nos.	1 KVA, 230/115-50-24-12 Volts, 50 cycles core types, air cooled		420				
477	Transformer three phase	2 nos.	5KVA, 440/230Volts, 50 cycles, Delta/Star, Shell type Oil cooled		800				
478	Two stage rotary vacuum pump	02 Nos.	capacity approx 60-100 L/min., capable of evacuating to 50 microns of Hg and fitted with gas ballast, anti suck back valve and single phase motor.		600				
479	Used DC generators-series, shunt and compound type for overhauling practice	1 no.	3kw/220v/DC		84				
480	Variable auto transformer	2 nos.	0-250V, 8 Amps.		40				

SSTARC
LIST OF FURNITURE ITEMS (PART-C)

Sl. No.	Description of tools/equipments , machinery and furniture	Quantity	Specification	Model/Brand	Earnest Money	Unit Rate	Trade Tax/VAT	Total	
					(in Indian Rs.)	(in Indian Rs.)	in Figure	In Fig	In Words
481	work Bench (shesam wood)	08nos.	2.5x1.20x0.75 metres 6legs(4"x4"),top thines-3" with out police whit suport		1600				
482	Work bench (shesam wood)	8Nos.	1000x600x800 mm.with four legs		1600				
483	Work bench (shesam wood)	10 nos.	240X120X90cm with six legs		1800				
484	Chair for Trainer /Instructor chair	24 Nos.	(armed), movable		280				
485	Class Room Chairs (armless)and Tables / Dual desk	150set/75 nos	Tables / Dual desk wooden ,with mica top, size(3ft X 2ft)		4500				
486	Computer chair armed	32 nos.	Revolving type metal based & metal wheel standard		3840				
487	Desktop table	18 nos.	Standard with drawers & self to accommodate UPS & CPU		1620				
488	Drawing desk table (Tracle)	60 nos.	1000x700mm with stand		5400				
489	Instructors table	24 Nos.	4'x2'x2.5' with steel tubler frame & sunmica top		2016				
490	Lockers of eight compartments	16 Nos.	195x90x48 set of 8 locker in one structure,M.S.sheet thickness 20 gauge		2560				
491	Lockers with two drawers	04nos.	195x90x48 set of two drawers in one structure, 20 gauge		520				
492	Marking table	01 no	91X91X122cm(16 gauge)		200				
493	Metal rack	08nos.	100 X 150 X45 cm, Angle frame 3mm width		1040				
494	Metal rack	02 no	182X182X45cm Angle frame 3mm width		260				
495	Multi drawer tool rack trolley	08 nos.	Standard size		960				

496	Steel cupboard	08 nos.	180x90x45cm,20 gauge		780				
497	Steel cupboard	08 nos.	120X60X45,20 gauge		560				
498	Stool wooden for tracle	60	Standard		1200				
499	Table for surface plate	02 nos.	600x450mm		240				
500	Visitors Chairs	6	Standard		320				
501	Work bench for Fitters with 2 Vices 100mm Jaw	2			440				
502	Cup Board For Keeping of Drawing Board, T-Square, Set Square sets, French Curves Set and Mini Drawing Models & Charts	2			800				