

कार्यालय राजकीय औद्योगिक प्रशिक्षण संस्थान,
अनूपशहर एवं सैदपुर (बीबीनगर)
(स्थित: सहकारी नगर) बुलन्दशहर ।

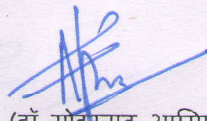
अल्पकालीन निविदा सूचना

एससीपी योजनान्तर्गत राजकीय आद्योगिक प्रशि० संस्थान सैदपुर ब्लाक-बी०बी०नगर एवं कस्बा-अनूपशहर ,बुलन्दशहर में डी०जी०ई०टी० भारत सरकार के मानकों के अनुरूप विभिन्न व्यवसायों में साज-सज्जा, उपकरण एवं मशीनरी हेतु अधोहस्ताक्षरी द्वारा उ०प्र० के रा०औ० प्रशि० संस्थानों/सरकारी विभागों में पाँच वर्षों से आपूर्ति का विशेष अनुभव रखने वाले प्रतिष्ठित साफ सुधरी छवि रखने वाले पंजीकृत आपूर्तिकर्ताओं से तकनीकी व वित्तीय विड अलग- अलग लिफाफों में मोहर बन्द निविदायें आमन्त्रित की जाती है दिनांक 26-02-2014 को सांय 4.00 बजे तक इस कार्यालय में अनिवार्य रूप से प्राप्त हो जानी चाहिए तथा प्राप्त निविदाएं 28-02-2014 को सार्वजनिक रूप से सांय: 3.00 बजे राजकीय आई०टी०आई० महिला शाखा बुलन्दशहर में खोली जायेगी।

निविदा प्रपत्र एवं आपूर्ति किए जाने वाली साज-सज्जा, उपकरण एवं मशीनरी जिसकी सूची व निविदा से सम्बन्धित समस्त शर्तें अधोहस्ताक्षरी के कार्यालय से किसी भी कार्य दिवस में दिनांक 12-02-2014 से 26-02-2014 दोपहर 12 बजे तक निविदा प्रपत्र शुल्क (अहस्तान्तरणीय) रू० 500.00 + 5% वैट नकद जमा करके प्राप्त किए जा सकते हैं । तथा निविदा प्रपत्र बैबसाईट www.upgov.nic.in, www.vppup.in एवं www.bulandshahr.nic.in www.gitibsr.com से भी डाउनलोड करके उपरोक्त निर्धारित शुल्क के साथ जमा किए जा सकते हैं ।

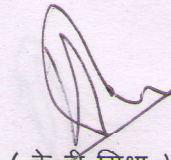
निविदा में अपनी न्यूनतम दरें प्रस्तुत करते हुए धरोहर राशि रू० 70,000/-का एफ०डी०आर० सम्बन्धित प्रधानाचार्य के पद नाम से बंधक होगी। अन्य समस्त अनिवार्य / वांछित विवरण / शर्तें निविदा प्रपत्र में उल्लिखित हैं ।

किसी भी या समस्त निविदाओं को बिना कारण बताये स्वीकार / निरस्त करने का अधिकार केता/ अधोहस्ताक्षरी को सुरक्षित रहेगा ।


(डॉ मोहम्मद आसिफ)

प्रधानाचार्य

राजकीय औद्योगिक प्रशिक्षण संस्थान
अनूपशहर एवं सैदपुर (बीबीनगर) बुलन्दशहर


(के.डी. मिश्रा)

प्रधानाचार्य

राजकीय औद्योगिक प्रशिक्षण संस्थान
अनूपशहर एवं सैदपुर (बीबीनगर) बुलन्दशहर

Office of Govt. Industrial Training Institute,
Anoopshahr and Saidpur (BB Nagar)
At Sahkarinagar Bulandshahr

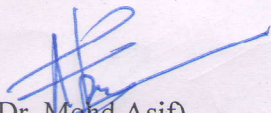
SHORT TERM TENDER NOTICE


Sealed Tender in two parts bid are invited from reputed /experienced/ authorized Tenderers for supply of training Tools & Equipments to Govt. Industrial Training Institutes. The tender must reached in this office up to **4.00 pm** on Dt. **26-02-2014** & will be opened on Dt. **28-02-2014** at **3.00 p.m.** at Govt ITI Women Branch Bulandshahr in the presence of Committee and tenderers who wish to be present.

The tender documents and specifications can be obtained from this office on any working day from **12-02-2014** on payment of tender fees (non refundable) of **Rs. 500 /-** +5% VAT by cash. The Tender Documents will be available on website **www.upgov.nic.in**, **www.vppup.in**, **www.bulandshahr.nic.in**, **www.gitibsr.com** downloaded tender doc. will be accepted with prescribed fees.

Tenderers are required to enclose F.D.R. of Rs 70,000 as EARNEST MONEY pledged in favor of respective "Principal Govt. I.T.I. Saidpur B B Nagar and Anoopshahr Bulandshahr", without which no tender shall be accepted.

The undersigned reserves the right to accept or reject any tender and to cancel the bidding process and reject all tenders at any time and any stage prior to the award of contract.


(Dr. Mond Asif)
Principal
Govt. Industrial Training Institute
Saidpur (Block B B Nagar)
Bulandshahr (U.P.)


(K D Mishra)
Principal
Govt. Industrial Training Institute
Kasba Anoopshahr
Bulandshahr (U.P.)

राजकीय औद्योगिक प्रशिक्षण संस्थान,

सैदपुर (बीबीनगर) एवं अनूपशहर

बुलन्दशहर

निविदा प्रपत्र

1. प्रपत्र बिक्री की तिथि : 12-02-2014 से
2. प्रपत्र बिक्री एवं जमा करने अन्तिम तिथि : 26.02.2014 साय 4.00 बजे तक
3. निविदा खोलने की तिथि व समय : 28 .02.2014 साय 3.00 बजे
4. निविदा खोलने का स्थान : राजकीय आई0टी0आई0, महिला शाखा बुलन्दशहर
5. निविदा प्रपत्र का मूल्य (वापसी योग्य नहीं): ₹0 500.00 + 5% वैट



प्रधानाचार्य

राजकीय औद्योगिक प्रशिक्षण संस्थान
सैदपुर ब्लॉक बी०बी० नगर (बुलन्दशहर)



प्रधानाचार्य

राजकीय औद्योगिक प्रशिक्षण संस्थान
सैदपुर ब्लॉक बी०बी० नगर (बुलन्दशहर)

निविदा प्रस्तुत करने की महत्वपूर्ण शर्तें / प्रतिबन्ध:

1. निविदा प्रस्तुतकर्ता अच्छी साख वाले प्राधिकृत एवं पाँच वर्षों अनुभवी आपूर्तिकर्ताओं/ डीलर्स से राजकीय औद्योगिक प्रशिक्षण संस्थानों से सम्बन्धित साज-सज्जा एवं उपकरण की आपूर्ति होना चाहिए। अनुभव के सम्बन्ध में प्रमाण-पत्र अवश्य संलग्न करें।
2. आपूर्तिकर्ता / निविदादाता का विगत दो वर्षों का टर्न ओवर कम से कम रु0 1.0 करोड होना चाहिए। अधिकृत प्रमाण-पत्र (आयकर रिटर्न / आडिट बैलेन्स सीट संलग्न करें)।
3. प्रस्तुत दरें न्यूनतम आगामी 8 माह हेतु वैध रहनी चाहिए।
4. समस्त साज-सज्जा एवं उपकरण राजकीय औद्योगिक प्रशिक्षण संस्थान, सहकारी नगर, बुलन्दशहर के भण्डार में आपूर्ति की जानी है।
5. समस्त दर नये साज-सज्जा एवं उपकरण की होनी चाहिए। साज-सज्जा एवं उपकरण आपूर्ति में स्पेशीफिकेशन का अनुपालन अनिवार्य है। साथ ही समस्त साज-सज्जा एवं उपकरण की गुणवत्ता आई0एस0ओ0 / आई0एस0आई0 प्रमाणित होनी अनिवार्य हैं। जहाँ विशेष मेक मॉगा गया है वहाँ अन्य मेक की साज-सज्जा एवं उपकरण स्वीकार्य न होगी।
6. क्रय आदेश जारी होने के 15 दिन के अन्दर माल आपूर्ति किया जाना अनिवार्य होगा। समय से माल आपूर्ति न होने की दशा में अर्नेस्ट मनी (Earnest money) को समायोजित करते हुये क्रय आदेश की धनराशि का 10% प्रतिशत अतिरिक्त धनराशि वसूल की जायेगी।
7. समस्त निविदादाताओं को जिलाधिकारी एवं वरिष्ठ पुलिस अधीक्षक द्वारा जारी ब्लैक लिस्टीट ना होने का प्रमाण पत्र प्रस्तुत करना होगा।
8. निविदादाताओं द्वारा प्रस्तुत दरों में समस्त कर सम्मिलित होंगे अलग से किसी कर का भुगतान नहीं किया जायेगा।
9. बिक्रीकर यदि कोई हो तो उसे निविदा दरों में ही सम्मिलित माना जायेगा अलग से किसी कर का भुगतान नहीं किया जायेगा।
10. प्रस्तुत दरों में ट्रान्सपोर्टेशन / चुंगी / पैकिंग आदि सम्मिलित होनी चाहिए, यह अलग से देय मान्य न होगी। रास्ते में हुई टूट-फूट की जिम्मेदारी आपूर्तिकर्ता की होगी।
11. निविदा दो भागों में पृथक-पृथक सील बन्द लिफाफे में प्रस्तुत की जायेगी। प्रथम भाग के सील लिफाफे में टेक्निकल आफर, जिसमें प्रपत्र / औपचारिकताओं / पात्रता सम्बन्धित प्रपत्रों के साथ-साथ समस्त आईटम्स के तकनीकी मानक सूची एवं अर्नेस्ट मनी का एफ0डी0आर संलग्न होगा। सम्बन्धित प्रपत्र रखकर उसके ऊपर "तकनीकी अभिलेख" अंकित किया जायेगा। द्वितीय भाग के सील लिफाफे में आईटम्स की दर सुचियां (आईटम्स की दरे शब्दों व अंकों में दर्शाया

जायेगा,) रख कर उसके ऊपर " फाईनेन्शियल आफर" अंकित किया जायेगा । दोनो लिफाफो को पुनः एक आवरण में सील्ड किया जायेगा ।

12. "तकनीकी आफर" के लिफाफे में प्रतिभूति धनराशि (अरनेस्ट मनी) का एफ0डी0आर0 रू0-70,000/- के मूल्य, से सम्बन्धित प्रधानाचार्य, राजकीय औद्योगिक प्रशिक्षण संस्थान, के पक्ष में बन्धक करते हुए संलग्न किया जाना अनिवार्य है।
13. निर्धारित तिथि एवं समय पर "तकनीकी आफर" के निविदा लिफाफे को पहले खोला जायेगा। जिन निविदादाताओं के तकनीकी आफर सन्तोषजनक / सही पाया जायेगा उनसे सम्बन्धित "फाईनेन्शियल आफर" के निविदा लिफाफे को उसके बाद खोला जायेगा। जिन निविदादाताओं के "तकनीकी आफर" सन्तोषजनक / सही नहीं पाया जायेगा उनके "फाईनेन्शियल आफर" के निविदा लिफाफे को नहीं खोला जायेगा तथा उसे रद्द समझा जायेगा । निविदा खोलते समय निविदादाता स्वयं या उसका कोई प्रतिनिधि आमन्त्रित है।
14. किसी भी आईटम का मूल्य बाजार मूल्य से अधिक नहीं होना चाहिये।
15. संस्थागत भण्डार में साज-सज्जा एवं उपकरण प्राप्त होने के उपरान्त उसका निरीक्षण भण्डारी / विषय विशेषज्ञ / भण्डार प्रभारी करेंगे , साज-सज्जा एवं उपकरण पूर्णतया सही पाये जाने पर ही 90 प्रतिशत का भुगतान तथा शेष 10 प्रतिशत का भुगतान साज-सज्जा एवं उपकरण के इन्स्टालेशन / कार्यशीलता के उपरान्त किया जाना सम्भव होगा ।
16. भुगतान की जाने वाले धनराशि से नियमानुसार आयकर की कटौती की जायेगी । कुल आयकर की कटौती का विवरण फार्म 16 ए पर आपूर्तिकर्ता को बाद में उपलब्ध कराया जायेगा ।
17. आपूर्ति की गई साज-सज्जा एवं उपकरण की गारण्टी / वारण्टी होने पर उसे अवश्य संलग्न करें । वारण्टी / गारण्टी का परिपालन करवाया जाना आपूर्तिकर्ता का उत्तरदायित्व होगा ।
18. फर्म द्वारा संलग्न प्रपत्र (पृष्ठ-4) पर इस आशय की घोषणा प्रस्तुत करनी होगी कि प्रस्तावित आपूर्ति करने का फर्म को पर्याप्त अनुभव है , अनुभव प्रमाण पत्र संलग्न करे । साथ ही फर्म के उ0प्र0 व्यापार कर एवं केन्द्रीय बिक्री कर के पंजीकरण प्रमाण-पत्र की छाया प्रति एवं आयकर की पैन नम्बर की छाया प्रति संलग्न करनी होगी।
19. दो अथवा अधिक आपूर्तिकर्ताओं की दर समान होने पर अधोहस्ताक्षरी टेण्डर समिति की संस्तुति के आधार पर किसी भी आपूर्तिकर्ता को क्रयादेश जारी कर सकते हैं । ऐसे में कोई अतिरिक्त पत्राचार स्वीकार न होगा ।
20. अपनी दर संलग्न सूचियों में आईटमों के सापेक्ष अंकित करें । किसी भी कटिंग ओवरराइटिंग पर स्पस्ट हस्ताक्षर अंकित करें । प्रत्येक पृष्ठ के नीचे अपने हस्ताक्षर करें व स्टेम्प लगाये ।

21. समस्त क्रय शासनादेश संख्या-344/18-5-'2003-76 एससीपी दिनांक-10-03-2003 अनुभाग-5 एवं कार्यालय ज्ञाप संख्या-बी-1-640/10-2013-231/2013 दिनांक-28 मार्च 2013, एवं शासन आदेश संख्या 2896/89-व्या0शि-2013-42(बी)/2012 दिनांक: 10 सितम्बर 2013 में उल्लिखित शर्तों एवं प्रतिबन्धों के अनुपालन करते हुये किया जायेगा।
22. समस्त निविदाएं निर्धारित प्रपत्र पर स्वीकार की जायेगी। निविदायें कार्यालय, प्रधानाचार्य, राजकीय आई0टी0आई सैदपुर, (बीबीनगर) एवं अनूपशहर कमरा-5 में स्थित सहकारी नगर, बुलन्दशहर में स्वीकार होनी है। प्राप्ति की अन्तिम तिथि दिनांक 26-02-2014 को सांय 4.00 बजे तक निर्धारित है, जिसके उपरान्त कोई निविदा स्वीकार नहीं की जायेगी। समस्त निविदाएं क्रय समिति व इच्छुक निविदादाताओं के समक्ष दिनांक 28-02-2014 को समय 3 बजे सांय राज0आई0टी0आई0 महिला शाखा, रेसकोर्स कालोनी, बुलन्दशहर में खोली जायेगी।
23. किसी भी निविदा को कोई भी कारण बिना बताएं निरस्त करने का अधिकार क्रय समिति को सुरक्षित रहेगा। इस सम्बन्ध में कोई भी पत्राचार स्वीकार न होगा।
24. समस्त विवादो का न्याय क्षेत्र बुलन्दशहर होगा।

(डा० मोहम्मद आसिफ)

प्रधानाचार्य

राजकीय औद्योगिक प्रशिक्षण संस्थान
सैदपुर (बीबीनगर) बुलन्दशहर

(कमंडांट प्रभु)

राजकीय औद्योगिक प्रशिक्षण संस्थान
प्रधानाचार्य
राजकीय औद्योगिक प्रशिक्षण संस्थान,
अनूपशहर बुलन्दशहर

आपूर्तिकर्ता द्वारा प्रस्तुत घोषणा-पत्र
100 रुपये के स्टाम्प पेपर पर

मैं मैसर्स.....

का अधिकृत प्रतिनिधि हूँ तथा अपनी फर्म से सम्बन्धित निम्न विवरण प्रस्तुत एवं सत्यापित करता हूँ ।

1. संलग्न निविदा में जो आईटम / साज-सज्जा एवं उपकरण मेरे द्वारा आपूर्ति की जानी प्रस्तावित की गई है, की आपूर्ति करने का मुझे कम से कम पाँच वर्ष का अनुभव है व मैं इस आपूर्ति कार्य में दक्ष व अनुभवी हूँ ।
2. निविदा की समस्त शर्तें / प्रतिबन्ध मेरे द्वारा अच्छी प्रकार से पढ़ व समझ लिए गये हैं, यह सभी मुझे स्वीकार है ।
3. मेरी फर्म आयकर विभाग में पंजीकृत है तथा इसका पंजीकरण संख्या व सन्दर्भ निम्नवत हैं ।
(क) उ०प्र० व्यापार कर
(संलग्न करें)
(ख) केन्द्रीय व्यापार कर
(संलग्न करें)
(ग) आयकर स्थाई खाता संख्या.....
(संलग्न करें)
4. मैं सत्यापित करता हूँ कि मेरी फर्म को किसी भी शासकीय विभाग द्वारा निविदा कार्य अथवा शासकीय कार्य आपूर्ति को लेकर काली सूची में नहीं डाला गया है ।

हस्ताक्षर / फर्म की मुहर सहित

प्रधानाचार्य

राजकीय बोर्डिंग क प्रशिक्षण संस्थान
कस्बा बल्लभपुर (बुलन्दशहर)

प्रधानाचार्य

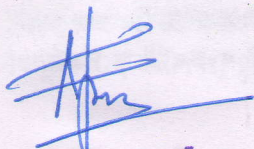
राजकीय औद्योगिक प्रशिक्षण संस्थान
बुलन्दशहर जिला बुलन्दशहर (बुलन्दशहर)

7

राजकीय औद्योगिक प्रशिक्षण संस्थान,
एस0सी0पी सैदपुर, (बीबीनगर) / कस्बा-अनूपशहर
बुलन्दशहर, (उ0 प्र0)

चैक लिस्ट

1. फर्म द्वारा टैण्डर क्रय किये जाने का रसीद। (हां/नहीं)
2. आयकर विभाग की बैलेन्स सीट सी0ए0 द्वारा जारी। (हां/नहीं)
3. फर्म का वाणिज्य कर विभाग द्वारा जारी टिन नम्बर। (हां/नहीं)
4. फर्म का आयकर विभाग द्वारा जारी पैन नम्बर। (हां/नहीं)
5. अनुभव प्रमाण-पत्र। (हां/नहीं)
6. डीलर/मैन्यूफैक्चर्स का आथोराइज्ड लैटर। (हां/नहीं)
7. 100 रुपये के स्टाम्प पर घोशणा पत्र। (हां/नहीं)
8. एफ0डी0आर0/बैंक ड्राफ्ट/एन0एस0सी0। (हां/नहीं)
9. दरों की वैधता 8 माह मान्य होगी। (हां/नहीं)
10. जिलाधिकारी एवं वरिष्ठ पुलिस अधीक्षक द्वारा जारी
ब्लैक लिस्टीट ना होने का प्रमाण पत्र (हां/नहीं)



प्रधानाचार्य

राजकीय औद्योगिक प्रशिक्षण संस्थान
सैदपुर बलाक बी०बी० नगर (बुलन्दशहर)



प्रधानाचार्य
राजकीय औद्योगिक प्रशिक्षण संस्थान
कस्बा अनूपशहर (बुलन्दशहर)

TRADE: INFORMATION TECHNOLOGY AND ELECTRONICS SYSTEM MAINTENANCE				
LIST OF TOOLS & EQUIPMENT				
A. TRAINEES TOOL KIT				
Sl. No.	Name of the item	Quantity	Specification	
1	Long Nose Plier	17Nos	made of Drop forged special selected steel Insulated with thick cellulose Acitade sleeves to with stand. any reputed company having ISO certification	
2	Combination Pliers	17 Nos	made of Drop forged special selected steel Insulated with thick cellulose Acitade sleeves to with stand. any reputed company having ISO certification	
3	Side Cutter	17Nos	Make ISO certified Co/ Any Reputed Co	
4	Soldering Iron (25W)	17Nos	Soldering Iron 25W/6volts Make -any reputed company having ISO certification	
5	Screw Driver Set	17Nos	Screw Driver Set Stem of high grade steel rust proof with green cellulose acetate handle erogonomic handle design fully hardened blade of high grade steel having ISI/ISO/Any Reputed Company.	
6	Spanner set	17Nos	15 degree made of Chrome Vanadium steel , chrome polished make – any reputed company having ISO certification	
7	Crimping Tool (RJ45)	17Nos	Crimping stiping cutting tool features (RJ 45) Make-Any reputed company having ISO Certification /ISI standards.	
8	Bench Vice	17Nos	Bench vice manufactured from high Quality Grey Cast Iron . A Very Strong material with excellent Shock absorbing capacity and immense strength under compression, these rigid & robust vices machined to close tolerances, with Interchangeable jaws, hardened Square thread spindle with appropriate pitch and depth as per design standards ISI/ISO/Any reputed Co.	
9	File	17Nos	Made of high quality carbon steel with wooden handle ISI/ISO/Any reputed Co.	
10	Desoldering Pump	17Nos	Make-Any reputed company having ISO Certification /ISI standards.	
11	Neon Tester	17Nos	Make-Any reputed company having ISO Certification /ISI standards.	
12	Hand Drilling Machine motorized	17Nos	with fully forged steel induction hardened tepmpered Make ISO certified Co/ Any Reputed Co	
B.	<u>General Machinery, Shop outfit</u>			
Sl. No.	Name of the item	Quantity	Specification	

1	Power Supply 0-30 V, 2 Amps	5 Nos	Make-Any reputed company having ISO Certification /ISI standards.	
2	Power Supply 30-0-30 V, 2 Amps	2 Nos	Make-Any reputed company having ISO Certification /ISI standards.	
3	Multi meter Analog	2 Nos	INPUT : 230/240 Volts, Single Phase AC 50 Hz. A. C. CIRCUIT OUTPUT VOLTAGE : 0 – 1000 Volts. VOLTAGE RANGE : 0 – 250 V, 0 – 500 V & 0 – 1000 V each range is selectable by selector switch and continuously variable. Indication by digital Voltmeter class better than 0.5% OUTPUT CURRENT (1) : 0 – 1000 milliamps. CURRENT RANGES : 0 – 500 mA and 0 – 1000 milliamps each range is selectable by selector switch and continuously variable. Indication by digital milliammeter class better than 0.5%.	
4	Multimeter Digital	5 Nos	Digital millimeter 3 & 3/4 digit 3 & ¾ digit DIGITAL MULTIMETER (Hand Held) 3 ¾ digit Multimeter , 3999 Counts, with Digital & Analog bar graph display with ABS system to prevent incorrect connections for protection of DMM Protections: Voltage protection up to 1000 Volts continuous in Resistance, Diode, Continuity & Temp. range. Fast Acting Fuses for over current and short circuit protection. High Voltage surge protection with Spark Gap arrangement Measuring Ranges: Voltage: 1000V AC/DC – Over voltage up to 1200V continuous Current: 300 µA to 10 A AC/DC range Fuse Protected, Resistance: 20 M_ or better, Capacitance: 30 µF, Frequency: 100 K Hz or better Temperature, Diode and Continuity Testing. Duty Cycle Basic Accuracy 0.25% or better of measured value Facility of storage of MIN/MAX values, compensate the lead resistance, Blown fuse indication, Auto Off, “Continuous ON” feature in long duration measurement, Auto/ Manual range selection. Infrared communication facility to enable data storage and computer connectivity (Signal penetrates through body of DMM to retain IP 52 protection.), It should be complies to safety standard CAT IV 600V, CAT III 1000V & confirming to IEC 61010 Must be supplied with Protective Holster for rough duty	
5	Lead Acid Battery 12V, 60 Ah	2 Nos	any reputed company having ISO Certification	
6	Capacitance meter Digital	1 No	any reputed company having ISO Certification	
7	DC servo Motor	1 No	any reputed company having ISO Certification	
8	AC servo Motor	1No	any reputed company having ISO Certification	
9	Tacho Generator	1 No	any reputed company having ISO Certification	

10	CRO 10 MHz, Dual trace	2 Nos	<p>CRO Trainer kit- Operating modes:channel I, channel II, channel I, II alternate or chopped, controls provided on PCB, channel selection signals available at points X-Y operation 1:1. Vertical Deflection(Y): Band width: DC-20MHz, rest time:17.5ns,Deflection coef.:12 calibrated steps 5mVcm-20mV/cm, input impedance:1MΩ II30pF, input coup[ling DC-AC-GND, Max. input voltage 350V (DC+ peak AC). Time base coefficient 18 calibrated steps, 0.5μs/cm-0.2s/cm with magnifier. Trigger system-automatic or variable modes, source channel I, chII, slope +ve or -ve, band width30MHz. Horizontal deflection-Band width: DC-2MHz, X-Y mode: phase shift<5° at 50KHz, Deflection coef.:12 calibrated steps 5mVcm-20mV/cm, input impedance:1MΩ II30pF. Component Tester- test volt:8.6V, test current-8mA, test fre.-50Hz. 140 mm rectangular medium short Cathode ray tube, 8*10 cm display, TTL level Z modulation, Calibrator: square wave generator1KHz, mains supply 230V, 50Hz, with all accessories & manual.</p>	
11	Inverter 500W	1No.	any reputed company having ISO Certification	
12	UPS	1 No	UPS (Small W)/UPS Trainer -Input: 190-260V, 50 Hz, output:230V, transformer input:12-0-12V, output:0, 190,220,240,260V 18-0 for battery charging	
13	Function Generator	1 No.	<p>Features Required</p> <ul style="list-style-type: none"> • Frequency 0.1Hz ~ 5MHz in 7 ranges • Output Waveform: Sine, Square, Triangle, \pmRamp, \pmPulse • Measuring Range 1Hz ~ 30MHz <p>Input Impedance Not less than 1Mohms/ 20pF Sensitivity 100mV rms Max. Input 150V (AC + DC) Input Attenuation 20dB Accuracy Less than 0.003% \pm 1digit Power supply 230V \pm10%, 50Hz</p>	

14	AM/FM signal generator	1 No.	Signal Generator with AM/FM Function Generators 10MHz with AM/FM & Frequency Counter upto 30MHz •Should have Frequency bandwidth of 0.1Hz ~ 10MHz • Output Waveform: Sine, Square, Triangle, ±Ramp, ±Pulse • Voltage Control Frequency (VCF) capability • TTL/CMOS and output synchronous output •Should be Less than 1% distortion at 10Hz ~ 100KHz • Should be Less than 0.5dB frequency response at 0.1Hz~100KHz • 1Hz~30MHz Frequency Counter • AM & FM Output Should have following Technical Specifications Frequency Range 0.1Hz ~ 10MHz Output Waveform Sine, Triangle, Square, Positive & Negative Pulse, Positive & Negative Ramp Output Impedance 50ohms ± 10% Amplitude Not less than 20V p-p (open circuit) DC Voltage 0~+10V continuously adjustable Symmetry Range 90:10 – 10:90 Rising Edge of Square <50ns Sine Characteristics Distortion Less than 1% at 10Hz ~ 100KHz	
15	RF Signal Generator	1 No.	any reputed company having ISO Certification	
16	Colour TV ,LCD/ LED TV	1No each	LCD/LED TV 32" ISI/ISO/Any Reputed Company.	
17	TVRO Terminal with LNB and Receiver	1Set	any reputed company having ISO Certification	
18	Cable TV Line Amplifier	2 Nos	any reputed company having ISO Certification	
19	Digital IC trainer Kit	1No	Digital IC Trainer Bread board:172x 129mm, Tie point: 1685, DC power supply:+3V/1A, 5V/500mA,+3V to 15V/500mA.-3V to -15V/500 mA, Pulse Generator:Freq. range:1 Hz to 1 MHz, Amplitude: 3V-15V(CMOS), 5V TTL, Duty cycle:50% TTL/CMOS, Pulser switches:2 Nos, Data Switches:8, Power supply: 220V, 50Hz with all accessories, manual etc	
20	Microprocessor Trainer Kit 8085	1 No	Micro Processor Training kit (8085)-Having separate student's work book, instructor's guide & technical references, Hardware & Software programming, 7 segment/ 16x2/ 16x4/ in display option,use of standard PC 101 keys keyboard programming, exhaustive didactic courseware, use of PC SMPS recommended for overseas market, video interface card-VCRO for VGA monitor/ oscilloscope.	

21	VCD Player	1No	VCD player-MP3 CD Sound Machine, Features:Loader Type: Top, Playback Media: CD, CD-R, CD-RW, MP3-CD, Disc Playback Modes: Fast Forward/Backward, Repeat Play, Next/Previous Album Search, Next/Previous Track Search, Shuffle Play, Programmable Tracks: 20	
22	DVD Player	1No	D.V.D.-10-240V AC 50 Hz, power consump. 10W, semiconductor laser system, Audio out: phono jack/2 Vrms/10 K Ω , Digital out(coaxial): phono jack/0.5Vpp/75 Ω , Video out: phono jack/1.0Vpp/75 Ω with remote & cable & manual with media. ISI/ISO/Any reputed Co.	
23	EPBAX with 5 Nos of Telephone receivers	1 set	EPABX Trainer kit (Modulation & Demodulation) (Electronics Exchange)- No. of Inputs-2 trunk/ direct lines, No. of Extn.-4 lines, Technology- cross point space division, Program memory- 64Kb EEPROM, Loop resistance-Extn.-600 Ω , Co-line-1200 Ω , test point- >25, Csoos talk attenuation-70dBm, with dial,busy,ring tone & DTMF and pulse dialing, Mains supply-230V,50Hz, No. of switched faults-8 having all features, accessorie & manual. ISI/ISO/Any reputed Co.	
24	FAX Machine	1 No	any reputed company having ISO Certification	
25	Computer with latest configuration	9	Computer System (latest Configuration) with Software & UPS ISI/ISO/Any Reputed Company.	
26	Terminal Adopter	1 No	any reputed company having ISO Certification	
27	Laser Printer	1 No	any reputed company having ISO Certification	
28	Deskjet Printer	1		
29	Hub - 8 Port	1 No	any reputed company having ISO Certification	
30	Cable MODEM	2 Nos	any reputed company having ISO Certification	
31	CD writer	1		
32	Different Expansion Cards	1 each	any reputed company having ISO Certification	
33	Scanner flatbed	No.	any reputed company having ISO Certification	
34	Bar code Reader	1 No	any reputed company having ISO Certification	
35	Mobile phone	1 No	any reputed company having ISO Certification	
36	Web Camera	1No	any reputed company having ISO Certification	
37	Digital Camera	1No	any reputed company having ISO Certification	

38	WLL Phone set	1No	any reputed company having ISO Certification	
39	ISDN line	1No	any reputed company having ISO Certification	
40	Netware software 10 user licence	1No	any reputed company having ISO Certification	
41	Word based network software	1No	any reputed company having ISO Certification	
42	MS Office, DOS 6.00 or latest	1No	any reputed company having ISO Certification	
43	Linux operating system	1No	any reputed company having ISO Certification	
44	Cable Transmission system with set top box	1No	any reputed company having ISO Certification	
	C. <u>WORKSHOP FURNITURE:</u>			
Sl. No.	Name of the item	Quantity	Specification	
1	Instructor's table	1 No	Made of good quality metal	
2	Instructor's chair	2 Nos	Made of good quality metal	
3	Metal Rack 100cm x 150cm x 45cm	4 Nos	Made of good quality metal	
4	Lockers with 16 drawers standard size	2 Nos	Made of good quality metal	
5	Steel Almirah 2.5 m x 1.20 m x 0.5 m	2 Nos	Made of good quality metal	
6	Black board/white board	1 No	Made of good quality metal	
7	Computer table	8 Nos	Made of good quality metal	
8	Computer chair	16 Nos	Made of good quality metal	
9	Printer table	1 No	Made of good quality metal	

TRADE : MECH. MECHANIC (REFRIGERATION AND AIR-CONDITIONER)			
Sl. No.	Name of Tools	Specification	Qty
1	File flat rough double cut 200mm	Made of high carbon steel Chisel with handle ISI/ISO/Any reputed Co.	17 nos.
2	File half round, fine double cut, length 150mm	Made of high carbon steel Chisel with handle ISI/ISO/Any reputed Co.	17 nos.
3	File round, fine double cut length 15mm	Made of high carbon steel Chisel with handle ISI/ISO/Any reputed Co.	17 nos.
4	File flat fine double cut length 150mm	Made of high carbon steel Chisel with handle ISI/ISO/Any reputed Co.	17 nos.
5	File square, fine double cut length 150mm	Made of high carbon steel Chisel with handle ISI/ISO/Any reputed Co.	17 nos.
6	File triangular fine double cut length 150mm	Made of high carbon steel Chisel with handle ISI/ISO/Any reputed Co.	17 nos.
7	Scriber 150mm length	Scriber 150 mm X 4mm (Knurled centre position)spring made of high Carbon steel and point Hardened & tempered	17 nos.
8	Centre punch length 100mm	Punch centre 100 mm Forged, induction hardened high carbon steel make any reputed co./ISO certified co.	17 nos.
9	Try square 150mm	Made of hardened spring steel should be precisely grounded to ensure straightness	17 nos.
10	Divider spring joint length 150mm	Divider 15 cm spring Manufactured from good Quality High Carbon steel tips hardend and tempered	17 nos.
11	Caliper spring joint in side length 150mm	Manufactured from good Quality High Carbon steel tips hardend and tempered	17 nos.
12	Caliper odd leg. spring joint length 150mm	Manufactured from good Quality High Carbon steel tips hardend and tempered ISI/ISO/Any reputed Co.	17 nos.
13	Hammer ball pain 220 gms	Hammer ball peen 220 gms with handle drop forged steel indution hardened lacquerd head seasome wood handle,polished hitting faced. Make any reputed company/ISO certified co.	17 nos.
14	Cold Chisel flat and cross cut length 150mm	Chisel cold flat 150 mm Forged, induction hardened high carbon steel make any reputed co./ISO certified co.	17 nos.
15	Engineers rule 300mm long	Make ISO certified Co/ Any Reputed Co	17 nos.
16	Tape measuring 10m. graduation in mm	Stainless steel tempered & chrome finish steel rule of size having inch & metric scale. ISI/ISO/Any reputed Co.	17 nos.
17	Pliers combination insulated length 200mm	Pliers combination 200 mm made of Drop forged special selected steel Insulated with thick cellulose Acitate sleeves to with stand 550 Volts	17 nos.
18	Pliers long nose 200mm	Plier gas round rose Insulate Size 200 m.m. made of Drop forged special selected steel Insulated with thick cellulose Acitate sleeves to with stand 550 Volts ISI/ISO/Any reputed Co.	17 nos.
19	Pliers flat nose 150mm	Plier flat nose 100mm Crome Vanadium Steel Hardened and tempered insulated hardened ISI/ISO/Any reputed Co.	17 nos.

20	Line tester 500v heavy duty	any reputed company having ISO Certification	17 nos.
21	End cutting nipper 15cm	any reputed company having ISO Certification	17 nos.
22	Tweezers 10cm	Insulated Stainless steel	17 nos.
23	Gloves for welding {Treated as consumable}	PVC frame with belt having 50mm dia high quality Ultra violet reflecting glasses	16+1 nos.
24	Leather Apron (Treated as consumable)	made of best quality leather	16+1 nos.
25	Surface plate 45X45 cms	Made of Cast iron	1no.
26	Oil can 500 ml	pressure type capacity 500 ml	5 nos.
27	Surface Gauge universal 150mm	Make ISO certified Co/ Any Reputed Co	5 nos.
28	Bench vice 300mm jaw	Bench vice 300mm jaw manufactured from high Quality Grey Cast Iron . A Very Strong material with excellent Shock absorbing capacity and immense strength under compression, these rigid & robust vices machined to close tolerances, with Interchangeable jaws, hardened Square thread spindle with appropriate pitch and depth as per design standards ISI/ISO/Any reputed Co.	10 nos.
29	Hack saw tubular metal frame adjustable 300mm	Hack saw tubular metal frame adjustable 300 mm with nickel polish	10 nos.
30	Snip sheet metal straight nose 200 mm	Snip sheet metal straight 200mm Spring made of steel and point Hardened	10 nos.
31	Snip sheet metal curved nose 200mm	Snip sheet metal curved 200mm Spring made of steel and point Hardened	10 nos.
32	Anvil 100X200mm	Make ISO certified Co/ Any Reputed Co	1no.
33	Stakes (different Types) 100mm	made of carbon steel hardened and tempered	1 no each
34	Tin smith 400 mm	Make ISO certified Co/ Any Reputed Co	1 No.
35	Wooden mallet/Nylon mallet 500gm good finish	Make ISO certified Co/ Any Reputed Co	5 Nos.
36	Round Punch 3mm. 4mm, 6mm	Make ISO certified Co/ Any Reputed Co	5 Nos. each
37	Grover set 4mm forming	Make ISO certified Co/ Any Reputed Co	1 set
38	Electrical drill portable drill with chuck and key capacity 6.4mm	Electric Drill with Polishing and Buffing Accessories- Rated voltage:235V,Type: universal , portable, Capacity: 6.4 mm, Watt: 600 (full load), speed full load: 560-1380 rpm, Speed no load: 385-950 rpm, continuous duty cycle, with all accessories , attachments & manuals. ISI/ISO/Any reputed Co.	5 nos.
39	Tape measuring graduation in mm 2m	Stainless steel tempered & chrome finish steel rule of size having inch & metric scale. ISI/ISO/Any reputed Co.	5nos.
40	Screw driver plastic handle flat 6mm tip length 100mm & 150mm	high grade steel rust Proof with Handle Ergonomic Handle Design, Fully Hardened Blade of High Grade Steel. Make-any reputed company having ISO Certification.	6nos.

41	Screw driver plastic handle flat 10mm tip length 200mm & 250mm	high grade steel rust Proof with Handle Ergonomic Handle Design, Fully Hardened Blade of High Grade Steel. Make-any reputed company having ISO Certification.	6 nos. each
42	Philips screw driver complete set in leather case	insulated handle thin stem- Chrome vanadium steel screw driver having cellulose acetate transparent handle as per IS 844-1979 of size blade length Make ISO certified Co/ Any Reputed Co	5 nos.
43	Screw driver plastic handle flat tip handle 3mm TIP length 100mm to 150mm	high grade steel rust Proof with Handle Ergonomic Handle Design, Fully Hardened Blade of High Grade Steel. Make-any reputed company having ISO Certification.	5 nos.
44	Soldering iron exchangeable copper tip 65 watts	Soldering iron 65 W. Make-any reputed company having ISO Certification.	10 nos.
45	Knife folded stainless steel 150mm	knife folded stainless steel 150m.m. aprox length made of MS steel hard and wood Handle	10 nos.
46	Tong tester (clamp on multimeter) 0-10-30 amps 0-500v	3 ¾ Digit LCD AC/DC ►Large Jaw Size: 60 mm ►Function Rich, AC/DC Current, AC/DC Voltage, Resistance, Diode, Capacitance, Frequency and Duty Cycle	5 nos.
47	Voltmeter AC/DC portable precision grade Digital Panel board type 0 to 500 volt	portable type housed in a bakelite/wooden box with antiparalix mirror scale. ISI/ISO/Any reputed Co.	5nos.
48	Ammeter, AC/DC portable precision grade digital panel board type belt 0 to 5 amp	portable type housed in a bakelite/wooden box with antiparalix mirror scale. ISI/ISO/Any reputed Co.	5nos.
49	Ammeter AC/DC portable precision grade Digital panel board type 0 to 30 amo	portable type housed in a bakelite/wooden box with antiparalix mirror scale. ISI/ISO/Any reputed Co.	5nos.
50	Megger 1000v	Housed in high trade molded bakelite bdy collapsible driven generator handle two sockets push buttons provided for connection and designed to accommodate standard cable 4mm plug scale length 70mm (approx) rotating speed 150RPM, Accuracy As per ISS 2992/87	5nos.
51	Wattmeter multi-range up to 1 KW	portable type housed in a bakelite/wooden box with antiparalix mirror scale. ISI/ISO/Any reputed Co.	1no.
52	Multimeter digital type	Multi meter (digital) hand-held/pocket type 3½ digit with AC-DC V, AC-DC Current, resistance/diode/continuity testing/capacitance/ transistor HFE measurement.	5nos.
53	Tenon saw 250 mm	Make ISO certified Co/ Any Reputed Co	5nos.
54	Firmer chisel 6, 12, 25mm	Fully forged, Induction Hardened Make-any reputed company having ISO Certification	2 nos.
55	Rawal Plug tool 6 mm	Rawl plug tool and bit made of mild steel and bit point hardened	2 nos.

56	K.W. meter 0-1 KW	Accuracy 1.0-2.0 basic current 1.5(6 amp) 5 (10 amp) laboratory type (instrument) portable meter (A.C. type) knife edge pointer & Anti parallax mirror scale bakelite. Display 3-1/2 digit. 7 segment LED panel	4 no.
57	Fire extinguisher ABC dry powder type 2 kg capacity	any reputed company having ISO Certification	1 no.
58	Fire buckets 10 Litre	Made of good quality metal	1 no.
59	D.E. spanner 6-32 mm	made of Chrome Vanadium steel , chrome polished make – any reputed company having ISO certification	5 set
60	Ring spanner 6-32mm	made of Chrome Vanadium steel , chrome polished make – any reputed company having ISO certification	5 set
61	Diagonal cutter 15 cm	made of Drop forged special selected steel Insulated with thickcellulose Acitrate sleeves . ISI/ISO/Any reputed Co.	5 nos.
62	service oscillator	variable upto 30 MHZ, Output: 1V rms upto 30MHz at 50 , Imprdence: 50 , Attenuator 120dB, accuracy ± 2 dB with 20dB. Counter read	1 no.
63	C.R.O. Single beam 5 MHZ / 10Mhz	Oscillioscope 10 MHz CRO 10MHz, Single Channel Features • Portable Oscilloscope with frequency bandwidth of 0-10MHz • Sensitivity of 10mV/ DIV. Equipped with 10:1 probe which makes the ISI/ISO/Any reputed Co.	2 nos.
64	C.R.O. Dual trace/Double beam 60 MHZ	Operating modes:channil I, channel II, channel I, II alternate or chopped, X-Y Operation 1:1, add/ sub Ch I \pm II, invert Ch II . Vertical Deflection(Y): Band width: DC-60MHz, DC-28MHz rise time:17.5ns,Deflection coef.:micro controller based 12 calibrated steps 2mV/div - 10V/div, input impedance:1M_ II30pF, input coupling DC-ACGND, Max. Input voltage 400V (DC+ peak AC). Time base coefficient micro controller based18 calibrated steps, 0.5 μ s/div-0.2s/ div with magnifier x 10 to 50 ns/div, Ramp output- 5V. Trigger system- automatic or variable modes, source- channel I, ch II, Alt ch 1/ch2, line,ext. slope +ve or -ve, band width 40 MHz. Horizontal deflection-Band width: DC-2.3 MHz, X-Y mode: phase shift<3° at 60KHz, Deflection coef.:micro controller based12 calibrated steps 2mV/div-10mV/div, input impedance:1M_ II30pF. Component Tester- test volt:8.6V, test current-8mA, test fre.-50Hz. 140 mm rectangular Cathode ray tube with internal graticule p31 phosphor, 8*10 cm display, TTL level Z modulation, Calibrator: square wave generator1KHz, mains supply 230V, 50Hz, with all accessories & manual	2 nos.
65	A.F.O. Oscillators	A.F. Oscillator-Operating modes: sine, square,triangle,Dc free running, with or without DC offset, Freq. range: 0.1Hz to 1MHz on microcontroller based with <0.1%/h frequency stability, Wave form characteristics: sine wve distortion: 0.1Hz to 1 MHz, Sq. wave risetime: max. 70 ns, overshoot $\leq 5\%$, triangle non linearity: $\leq 1\%$, Freq. counter: freq. range:DCto 50MHz, resolution: 1Hz, sensivity: 0.5V, Outputs: Impedence: 50 Ω /600 Ω , voltage: Max 15Vpp into 50 Ω , 30Vpp open circuit, Attenuation: 2 steps -20dB each, Ampl. flatness:sine/triangle with 50 Ω termination 0.1Hz to 1MHz, Trigger output: TTL more than 4V, FM Input/ External Sweep- Freq. change: 1:100, Input imp.: 100K Ω II 25 pF, mains supply: 220V, 50 Hz with all accessories & manual	2 nos.
66	Tong, Close mouth and pick up	Make ISO certified Co/ Any Reputed Co	1 no.

67	Welding table for gas/Arc 1200X760	Made of good quality metal Make ISO certified Co/ Any Reputed Co	1each
68	Flaring tool set, single type for tube. 4.7 mm to 16mm O.D.	Flaring tool set, single type for tube 4.7 to 16 mm O.D. block and cone made of Alloy steel and hard & tempered should be able to flooring ½” , 7/16” 5/16”, ¼”, 3/16”, and 5/8” OD. Flaring block & cone hard & tempered & nickel chrome plated.	5 nos.
69	Swaging tool punch type, set of size for tube. 4.7mm to 16mm O.D.	Set of different sizes of Swaging Tool, ranging from ¼” to ½” size	5sets
70	Swaging tool, screw type with adaptor set of size for tube 4.7 mm to 16mm O.D.	Swaging tool screw type set with adaptor set of size for tube 4.7 mm to 16 mm o. D.	5sets
71	Bending spring external type, for copper tube	3mm to 16mm DIA	5sets
72	Pipe cutter miniature for copper tube 3mm to 16mm DIA	Pipe cutter miniature for copper tube 3 mm to 16 mm dia with carbon steel rotating blade body chrome plated.	5sets
73	Pinch of tool, for copper tube, 6mm to 18mm DIA	Heavy duty pipe cutter capable of cutting copper tube from 3 to 32 mm size copper pipe	5sets
74	Ratchet spanner of 6.4sq. mm reversible	Ratchet spanner of 6.4 sq. Mm reversible	5sets
75	Capillary plug gauge	Capillary Plug Gauge, gauge needle hard & tempered.	5sets
76	Pinch of pliers/crimping pliers tool 6mm-18mm DIA	Pinch of tool for copper tube 6 mm to 18 mm dia. Made of alloy steel with hexagonal nuts for punching tube.	5sets
77	Piercing pliers & reversing valve with access fitting 6-18mm	Pinch of tool for copper tube 6 mm to 18 mm dia. Made of alloy steel with hexagonal nuts for punching tube.	5sets
78	Spanner double ended 4.7mm to 16mm	made of selected drop forged chrome vandum steel fully hardend & temperd.	5sets
79	Ring spanner off set 4.7mm to 16mm	made of selected drop forged chrome vandum steel fully hardend & temperd.	5sets
80	Wrench adjustable length 150mm	made of drop forged from carbon steel fully hardened & taempered jaws induction Hardened & jaws angled against the direction of run with phosphate finish.	5sets
81	Wrench adjustable length 200mm	made of drop forged from carbon steel fully hardened & taempered jaws induction Hardened & jaws angled against the direction of run with phosphate finish.	5sets
82	Wrench adjustable length 250mm	made of drop forged from carbon steel fully hardened & taempered jaws induction Hardened & jaws angled against the direction of run with phosphate finish.	5sets
83	Valve key handle[Treated as consumable]	– 4.7mm & 6.4mm sq.	5sets
84	Pressure gauge Digital type diameter 63mm with recalibration set	Pressure Gauge diameter 63 mm with recalibration set screws, scale 0 to 35 kg/sq.cm also graduation in lbs/inch square with gauge adopter for ¼” flare connection.	5sets

85	Compound gauge, Digital type diameter 63mm with recalibration set screw, scale vacuum 76mm. Pressure 15Kg./sq. cm	Compound Gauge, diameter 63 mm with recalibration set screw, scale Vacuum 76 mm. Pressure 15 kg./ sq.cm. and also graduation in lbs/inch square with gauge adopter for ¼” flare connection.	5sets
86	Service man thermometer in metal case	– 30 C to +30 C	
87	Scissor, gasket cutting stainless steel length 25mm	Made of stainless steel	5sets
88	L-Allen key set size 1.5mm to 6.4mm	Allen key set 1.5 to 6.4mm set of 10 Chrome Vanadium Steel Champhered Heads Proper Heat Treatment 48-52 HRC	5sets
89	T-Allen key set size 5/32" to 1/8"	Allen key set 5/32" to 1/8" mm set of 10 Chrome Vanadium Steel Champhered Heads Proper Heat Treatment 48-52 HRC	5 sets
90	Pipe cutter with built in reamer and space cutter, for copper tube 3 mm to 32mm	Make ISO certified Co/ Any Reputed Co	5sets
91	Pipe/Tube bender lever type 3-16mm	Make ISO certified Co/ Any Reputed Co	5nos.
92	Spanner double ended 19mm to 31.8mm	made of selected drop forged chrome vandium steel fully hardend & temperd.	1 no each
93	Pipe wrench size 50mm to 150mm	made of drop forged from carbon steel fully hardened & taempered jaws induction Hardened & jaws angled against the direction of run with phosphate finish.	5nos.
94	Gas leak detector for halogen gas	Electronic gas leak detector for halogen gs with audio / visible indication sensitivity upto <0.5 gt. Per year. Lock out clear facility switches operated on dry cell or 9 V batteries low battery indication facility provided with flexible sensing tip sensing tip protector, ear phone, filter cloth complete set in case with operating manual.	5nos.
95	Slng psychos meter mounted on aluminum back scale 50 C to + 50 C	Make ISO certified Co/ Any Reputed Co	5nos.
96	Lapping plate 250mm X 200mm	Lapping plate 250x200mm, made from good quality CI duly machined, finished by lapping to the accuracy of Grade Ist.	5nos.
97	Hammer ball peen 4.50 gms	Hammer ball pein 0.75 kg Drop Forged Steel Induction Hardened. Lacquered Head Seasoned Wood Handle. Polished Hitting Face.	2nos.
98	Puller 3 legged with flexible arm 300mm	Make ISO certified Co/ Any Reputed Co	5nos.
99	Hand blower portable complete 1/10HP	Make ISO certified Co/ Any Reputed Co	5nos.
100	Spirit level precision metallic 200mm	Make ISO certified Co/ Any Reputed Co	2nos.
101	stop watch	Make ISO certified Co/ Any Reputed Co	2nos.
102	Tap set with matching drills 3mm to 16mm	Make ISO certified Co/ Any Reputed Co	3 nos.
103	Tap set with matching drills ¼" to 5/8"	Make ISO certified Co/ Any Reputed Co	3nos.
104	Refrigerant cylinder 2.5Kg	Make ISO certified Co/ Any Reputed Co	3nos.

105	Vernier caliper length 250mm	.) with thumb screw made of fully hardened stainless steel set in chrome finish with clear Black graduation raised sliding surface to prevent wear of graduation .	2 nos.
106	Micrometer outside measurement 0 to 25mm	.) with thumb screw made of fully hardened stainless steel set in chrome finish with clear Black graduation raised sliding surface to prevent wear of graduation .	2nos.
107	Heating kit with infrared bulb (200 w capacity)	Make ISO certified Co/ Any Reputed Co	2nos.
108	Plumbing hammer weight 200gm	Make ISO certified Co/ Any Reputed Co	2nos.
109	Multimeter analogue type	INPUT : 230/240 Volts, Single Phase AC 50 Hz. A. C. CIRCUIT OUTPUT VOLTAGE : 0 – 1000 Volts. VOLTAGE RANGE : 0 – 250 V, 0 – 500 V & 0 – 1000 V each range is selectable by selector switch and continuously variable. Indication by digital Voltmeter class better than 0.5% OUTPUT CURRENT (1) : 0 – 1000 milliamps. CURRENT RANGES : 0 – 500 mA and 0 – 1000 milliamps each range is selectable by selector switch and continuously variable. Indication by digital milliammeter class better than 0.5%.	5 nos.
110	Tachometer digital multi range 0 r m p to 3000 r m p. Portable small size in leather case	Make ISO certified Co/ Any Reputed Co	2 nos.
111	Micron vacuum gauge capable of reading upto 20 microns	Make ISO certified Co/ Any Reputed Co	2nos.
112	Sensor thermometer (digital) 50 degree Celsius to 150 degree 28 Celsius	Make ISO certified Co/ Any Reputed Co	2nos.
113	Fin straightened/fin comb. With strong steel wire based combing on wood	Make ISO certified Co/ Any Reputed Co	3nos. 3 nos.
114	Filler gauge 0.05 mm-1 mm	Make ISO certified Co/ Any Reputed Co	
115	Wire gauge metric and with worth steel plate embossing converse of British & metric	Made of high carbon steel Chisel with handle	2 nos.
116	Dial thermometer remote control, armored capillary dial 75mm – 50C to + 50C	Make ISO certified Co/ Any Reputed Co	3nos.
117	Anemometer Digital type	Make ISO certified Co/ Any Reputed Co	1nos.
118	hermetic compressors Fixed with electrical input / output indicating	Make ISO certified Co/ Any Reputed Co	2 nos.
119	consumable) Current and potential relays, start & run capacitors, PTCs, overload protectors relays	Make ISO certified Co/ Any Reputed Co	1 nos.
120	Engineers square 150mm with 5 tolerance	Make ISO certified Co/ Any Reputed Co	5 nos.
121	Digital thermometer (Treated as consumable) Graduated disc analogy type	Make ISO certified Co/ Any Reputed Co	1 no.
122	Temperature & Humidity recorder Capacity to record 24hrs record	Make ISO certified Co/ Any	1 no.
123	Electronic leak detector digital type Capable to detect of R 134a, HC, R-22	Reputed Co	2 nos.
124	Instrumentation screw driver set 100 mm	Make ISO certified Co/ Any Reputed Co	5 nos.

125	Digital weighing machine 100kg	Make ISO certified Co/ Any Repuated Co	1no.
126	Recycling unit	Recycling unit for Recycling of refrigerant R-12 and R-22 fitted on heavy duty base and complete with charging line gauges and cylinders.	1no.
127	Quick couplers/Self sealing coupler (Treated as consumable) ¼ - 3/8"	Make ISO certified Co/ Any Repuated Co	2nos.
128	Schrader valve (Treated as consumable)	Make ISO certified Co/ Any Repuated Co	1 no.
129	Cylinder 134 a 5 kg	Make ISO certified Co/ Any Repuated Co	1no.
<u>B GENERAL MACHINERY SHOP OUTFIT</u>			
1	Split phase induction motor ¼ hp, 230V	Make ISO certified Co/ Any Repuated Co	
2	Capacitor start induction motor ½ Hp, 230V	Make ISO certified Co/ Any Repuated Co	1 each
3	AC 3 Phase motor, 400/50 Hz 2 Hp	Make ISO certified Co/ Any Repuated Co	1 no.
4	Star delta starter 2hp	Make ISO certified Co/ Any Repuated Co	01 Nos
5	Auto Transformer starter 3hp	Make ISO certified Co/ Any Repuated Co	01 Nos
6	D.O. L Starter 2hp	Make ISO certified Co/ Any Repuated Co	01 Nos
7	Portable air- LPC brazing kit 2 kg. LPC cylinder, torches, houses, stand make	Make ISO certified Co/ Any Repuated Co	01 Nos
8	Oxy-acetylene welding set complete cylinders, regulators welding torches with difference nozzles	Make ISO certified Co/ Any Repuated Co	01 Nos
9	Refrigerator 165L carrying with HFC- 134a, & HC	Make ISO certified Co/ Any Repuated Co	02 Nos
10	Frost free refrigerator 200L carrying with HC blend	Make ISO certified Co/ Any Repuated Co	2 nos.
11	Three/Four door refrigerator 300 L carrying with HC R-600a	Make ISO certified Co/ Any Repuated Co	02 Nos
12	Bench Drilling Machine 20mm capacity 200- 2500rpm	any reputed company having ISO Certification	02 Nos
13	Grinding Machine 200mm, 3000rpm, double ended ½ hp	Make ISO certified Co/ Any Repuated Co	01 Nos
	Evacuating and refrigerant charging station, consist of	Make ISO certified Co/ Any Repuated Co	01 Nos
	a) Rotary two stage vacuum pump and motor (with gas ballast and anti such back)	Make ISO certified Co/ Any Repuated Co	01 Nos

14	b) manifold with gauges and valves and capable of pulling vacuum up to 50 microns of Hg and with provision of connecting to a microns level vacuum gauge	Manifold with gauges and valves and capable of Vacuum up to 50 micron of Hg provision of connecting to a macron level vacuum gauge with charging lines.	
	c) Graduated charging cylinder with provision for temperature correction and all necessary isolating valves	(b) Graduated charging cylinder with provision of volumetric correction with the facility of low side ball valve and compound gauge, high side ball valve & pressure gauge, charging ball valve, fitted with micron level vacuum hold facility and vacuum hold gauge and break valve and isolating valve this set will be mounted on iron frame, digital thermometer.	
	II) Evacuating and charging station as above but fitted with weighing scale (CAP. 2 kg. In lieu of (b) above and with accuracy of + /-1 g for charging hydrocarbons)	2. Evacuating & charging station with weighing scale (a) As per Above (b) As per Above (c) Fitted with digital weighting scale up to 2 kg. with 0 Adjuster scale accuracy ± 0.1 gm for charging hydrocarbon.	
15	Two stage rotary vacuum pump capacity approx. 60- 100rpm capable of evacuating to 50 microns of Hg and fitted with gas ballast, anti such back valve and single phase motor	Two Stage rotary vacuum Pump portable direct drive type of capacity 150 lit/min, displacement swept volume 9 meter cube / Hr ultimate vacuum 5 microns of Hg and fitted with gas ballast, anti suck back valve motor RPM 1440, 375 watt $\frac{1}{2}$ H.P. 230 V A/C, Suction fitting $\frac{1}{4}$ " flare and exhaust fitting $\frac{1}{2}$ " B.S.P.	
16	Air Compressor two stage for oil – less dry air, with rush proof tank assembly, heater and controls max. pr. 10 kgs/sq.m Capacity 45 ltr. Motor 1 hp.	Air compressor with double cylinder stroke provided with heat exchanger between both the cylinder heads. Motor 1 HP capacity, with rust proof, tank assembly, and control max. pr.10 kgs/ square	01 Nos
17	Reciprocating compressor provision of capacity control etc. for demonstration. Capacity 9000Kcal/hr. semi hermetic open type.	Carrier / Voltas make compressors with in built system of capacity control handled with a valve so as to enable the compressor to be ON LOAD AND OFFLOAD with built in Hydraulic System of Pin & reeds valve.	01 Nos
18	Dry N2 in cylinder 2 stage regular or commercial N 2 in cylinder with drier unit and 2 stage regular 7meter cube	ISI/ISO/Any reputed Co.	01 Nos
19	Window A.C. 1 Ton with R-22 or HFC Blend reciprocating compressor	any reputed company having ISO Certification	02 Nos
20	Split A.C 1.5 Ton with R134a or R-22 reciprocating compressor	Stabilizer having with remote control & timmer adjusting. A/C unit split type 1.5 ton capacity with Stabilizer ISI/ISO/Any Reputed Company.	02 Nos
21	Duct able split A.C 1.5 ton 1.5 Ton with R134a or R-22 reciprocating compressor	any reputed company having ISO Certification	

22	Recovery unit with cylinders CFC & 134a	Recovery unit one each for CFC & 134 A refrigerants with recovering of cylinders (A) Recovery unit for CFC with recovery cylinder unit with CFC hermetically sealed unit ½” H.P. with force conviction fine type cooled condenser and receiver with fitted high pressure and low pressure cut out switch, best quality driver and suitable ¼” hard shut off valves inlet and outlet of machine all component and control fitted on angle iron frame with provision of wheel and supplied with two charging lines and recovery cylinder complete with instruction manual. (B) Recovery unit for HFC 134 a with recovery cylinder unit with HFC 134 AQ Hermetically sealed unit 1/6 HP to ½ H.P. as same as above.	01 Nos
23	Heat pump 3000 Kcal/hr	ISI/ISO/Any reputed Co.	01 each
24	Cassette Air conditioner 4500 Kcal/hr with R-404	any reputed company having ISO Certification	01 Nos
25	De scaling pump set with stainless steel impeller and housing complete with motor ½ hp and accessories	De-scaling pump set with stainless steel impeller and housing with motor 1/2 hp and accessories.	01 Nos
26	Small capacity shell and tube condenser 5 Ton with Cu tubing only	Make ISO certified Co/ Any Reputed Co	01 Nos
27	Fan coil unit with water valves (2 & 3 way)	Make ISO certified Co/ Any Reputed Co	01 Nos
28	shell and tube, DX chillers (small) 5 Ton with Cu tubing only	Make ISO certified Co/ Any Reputed Co	01 Nos
29	H.P. with stainless steel tank capacity 20 liters with in let/outlet	Make ISO certified Co/ Any Reputed Co	01 Nos
30	Shell and tube type condenser 5 Ton	Make ISO certified Co/ Any Reputed Co	01 Nos
31	Rotary hermetic compressor 2 Ton	Make ISO certified Co/ Any Reputed Co	01 Nos
32	Screw compressor 5 Ton	Make ISO certified Co/ Any Reputed Co	01 Nos
33	Scroll compressor 1 Ton	Make ISO certified Co/ Any Reputed Co	01 Nos
34	Bottle cooler visible	200 L carrying with HFC-134a& reciprocating compressor	1 no.
35	Deep freezer	200 L carrying with HFC-134a& reciprocating compressor	1 no.
36	Water cooler storage type 200 L carrying with HFC-134a & reciprocating compressor	Make ISO certified Co/ Any Reputed Co	01 Nos

37	Ice candy plant 2 ton with capacity to make 32 ice candy at a time with forma tray, stainless steel tank on trolley	Ice candy unit comprising of the following:-Freezer compartment outer and inner both made of stainless steel tank provided with single mould of 32 ice cream / ice candy, agitator along with motor. Pressure gauges both suction & discharge, filter drier, liquid indicator, hand shut off valve LP / HP Cut out switch, thermostatic expansion valve and capillary expansion devices, Receiver along with valves, suction accumulator, fin and tube type condenser along with fan motor. Electrical components comprising of energy meter, MCB, volt and ampere meter, LED indication lights etc. all housed on tubular frame duly powder coated / paint finish duly pressure tested and refrigerant charged, ready to plug and demonstrate.	01 Nos
38	Walk in cooler 3 Ton cap. with open type compressor, water cooled condenser, providing with PUF insulated room sealed proof size 8X8X10Ft maintain 0-5 degree centigrade.	Make ISO certified Co/ Any Reputed Co	01 Nos
39	Air – conditioning, direct and indirect water chiller. Complete with all controls including humidity control capacity 15000 Kcal/hr	AIR CONDITIONING PLANT DIRECT AND INDIRECT comprising of : SEALED COMPRESSOR 5 TR CAPACITY (15000 KCAL/HR) AIR COOLED CONDENSER SIZE 2’ X 4’ X 3 ROW WITH DOUBLE FANS, SHELL & TUBE TYPE CHILLER, WATER PUMP, WATER TANK, FAN COIL UNIT FOR DX COIL WITH FAN & BLOWER, FAN COIL UNIT FOR CHILLED WATER WITH FAN & BLOWER, SUCTION ACCUMULATOR, RECEIVER, DRIER, LIQUID INDICATOR, SOLENOID VALVE, EXPANSION VALVES, TEMPERATURE INDICATOR, LP / HP CUT OUT SWITCH, COPPER LINING AND G.I. PIPE LINING etc. AND ALL ELECTRICAL ACCESSORIES SUCH AS ENERGY METER, VOLT & AMPERE METER, SINGLE PHASE PREVENTOR, MCB, PUSH BUTTONS AND LED LIGHTS fitted on M.S, Channel and angle base with duly powder coated / paint finished.	01 Nos
40	Package A/C 7.5 ton capacity water cooled type with open type compressor reciprocating type	Make ISO certified Co/ Any Reputed Co	01 Nos
41	Car A.C components (full kit)	any reputed company having ISO Certification	01 Nos
	a) Wobble plate compressor with mounting brackets.	any reputed company having ISO Certification	01 Nos
	b) Serpentine Evaporator	any reputed company having ISO Certification	
	c) Parallel Flow condenser	any reputed company having ISO Certification	
	d) Hoses, tubes, Receiver Ex, valve.	any reputed company having ISO Certification	
	e) Electrical components & wiring Harness	any reputed company having ISO Certification	
42	CAR AC tutorial model	Make ISO certified Co/ Any Reputed Co	
<u>WORKSHOP FURNITURE</u>			17 nos
Sl. No.	Name of Equipment		
1	Class room table one table for each trainee size of 2.5 provision with open rack. Frame square conduit of 1" top ½" sun mica ply board	Made of good quality metal	Short Quantity

2	Work bench 2000 X 1000 X 700 mm with 2" pipe frame. top with teak slab and fixing with ¾" good quality rubber sheet.	Made of good quality metal	10 Nos
3	Almirah 195X90X48 cm outer sheet 20 SWG inner partition with four selves of 22Swg	Height 1980 Width 910 Depth 480 mm. Pedestal Height 125 +- 5mm.& width 80mm No of shelves 04 No of hinges each side 03 Steel Almirah shall be fitted with good Quality brass lock with non changeable stainless steel double keys. The handle should be duly chromium plated. Color of the paint should be olive green. The almirah shall be fabricated from mild steel sheet of 22 gauge . Made of good quality metal	10 Nos
4	Lockers 195X90X48 set six locker in one structure	Made of good quality metal	03 Nos
5	Glass board portable 2.5"X4' with stand	Made of good quality metal	02 Nos
6	Instructor table 4'X2'X2.5' with steel tubular frame & sun mica top	Made of good quality metal	02 Nos
7	Instructor chair standard revolving with wheel	Made of good quality metal	01 Nos
8	Computer table standard with Drawers & self to accommodate UPS&CPU	Made of good quality metal	01 Nos
9	Computer chair Revolving type metal based & metal wheel standard one	castors, good Quality Plastic base with adjustable seat of size 400 W x 400 D mm +- 5mm and back of size 375 W x 300 H mm + 5 mm having seat height adjustable from 410 to 510 mm seat and back of high density foam without arms with gas lift	01 Nos
10	White board 4'X3' ferrous base sheet to hold magnetic duster with white finish surface.	Made of good quality metal	01 Nos
11	Chart stant 6'X3' providing with hanging clip top & bottom plate	Made of good quality metal	01 Nos
12	printer Ddr-3- 1333 Mega Hz, GB-6 hard disc-1 terabite, processor-15 second generation laser jet LED	Make ISO certified Co/ Any	04 Nos
13	LCD PROJECTOR/LED/LCD TV Big Size	Make ISO certified Co/ Any Reputed Co	04 Nos
14	Laptop Latest version	Make ISO certified Co/ Any Reputed Co	01 Nos
15	UPS 650 VA	Make ISO certified Co/ Any Reputed Co	01 Nos
16	Stool	Make ISO certified Co/ Any Reputed Co	05 Nos
17	Book Self with glass panel	Make ISO certified Co/ Any Reputed Co	
18	Storage rack	fixes witch mats & bolts suitable support should be attached total 8 nos. slotted angle should be used . Make ISO certified	
19	Storage shelf	1980 x 910 x 480 mm made out from 22 gauge M.S sheet having separate doors for each lockers, paint finished and with separate outer locking arrangements, Pedestal height- 125 mm and width- 80 mm Tolerance- +/- 5 mm in dimensions only.Good Quality Locks of 6 levered Brass of 40mm / 50 mm should be provided . Make ISO certified Co/ Any Reputed Co	