

# HMT (INTERNATIONAL) LIMITED

A Govt. of India Undertaking

(OPEN TENDER)

BID DOCUMENTS

FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL  
for

Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

The Tender document issued against payment of Rs 2,500.00 (Rupees Two Thousand Five Hundred only) in the form of a Demand Draft / Digital Transfer towards cost of tender document. The Bidder who choose to download tender document from website must submit the Demand Draft towards cost of the Tender documents along with Technical bids in Envelope-I.

## **ATTENTION**

1. Only sealed Tenders shall be entertained. All joints of envelope should be sealed with wax with individual design stamped on it or with cello tape to ensure it is tamper proof.
2. Tenders not sealed shall be rejected straight away.
3. Do not use window envelope.
4. Technical Bid and Commercial Bid to be put in a separate cover super-scribing Tender Ref. No., Date, Submission date, Lot number and Bidder address on the top of envelope. **In case, the Bidder quotes for more than one lot, offers for each Lot to be submitted separately. Do not combine multiple Lots together.**
5. The Bidder may depute their authorized representative to witness the tender opening for both Technical and Commercial Bids.
6. **For the Lots : 1-15, 22-25 only – If the bidder is not Manufacturer, Bidders must submit Authorization letter from Manufacturer as per Annexure 9 or else their bids will be rejected.**

**HMT Bhavan, No.59, Bellary Road, Bangalore 560 032**

**Tel: 91- 80 - 2333 9060, Fax: 91- 80- 2333 9048**

**Web Site: [www.hmti.com](http://www.hmti.com), E-mail: [projects@hmti.co.in](mailto:projects@hmti.co.in)**

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## SECTION I: INVITATION FOR BIDS (IFB)

**HMT (International) Ltd, [HMT (I)]** Bangalore invites sealed bids from eligible Indian bidders for supply, installation & commissioning, Trial of following items for the Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar under the assistance from Government of India as per Schedule of Requirements / Scope of Supplies (SR) - (Section IV)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
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24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

1. HMT(I) invites sealed bids from eligible bidders for the Supplies as above with details listed in Section IV.

**For the Lots : 1-15 & , 22- 25 only – If the bidder is not Manufacturer, Bidders must submit Authorization letter from Manufacturer as per Annexure 9 or else their bids will be rejected.**

**Bidders shall participate for any number of lots but Part bidding within the lot is not allowed**

2. **Contact information**

The Joint General Manager, Projects  
HMT (International) Limited,  
59, Bellary Road, Bangalore-560032, INDIA  
Tel No.: 080- 23339060  
Fax No.: 080- 23339048  
E-mail: [projects@hmti.co.in](mailto:projects@hmti.co.in) / vaish@hmti.com

3. **Two bid System**

The two bid system will be followed. The bidder must submit his offer in two separate sealed envelopes as explained below:

Offer in the prescribed forms Section – V, Annexure 1 to 9 should be submitted in the following manner.

**Envelope I: “Technical bid”:** The sealed envelope shall contain all the copies of technical bids Lot-wise separately together with Commercial Bids without indicating the prices. This envelope shall be clearly marked **“Part I - Technical bid”**, indicating Tender No., Lot Number, Closing Date & Time, and bidder address duly filled (separately for each Lot).

The envelope-I should be duly sealed on all joints with wax with an individual design stamped in it or tamperproof sealing using cello tape.

This part shall include / indicate the following:

1. The Bidder shall provide requisite documentary evidence for pre-qualification criteria as stated below, **failing which, the Bids may result in rejection:**

- The Bidder’s annual turnover (average) for 3 years shall be atleast as mentioned below against each Lot in the last three financial years.

**LOT -1: Rs. 1,26,04,000/- (One Crore Twenty Six Lakh Four Thousand Rupees only)**

**LOT -2: Rs. 20,00,000/- (Twenty Lakh Rupees only)**

**LOT -3: Rs. 1,12,44,000/- (One Crore Twelve Lakh Forty Four Thousand Rupees only)**

**LOT- 4: Rs. 75,85,000/- (Seventy Five Lakh Eighty Five Thousand Rupees only)**

- LOT- 5: Rs. 73,12,000/- (Seventy Three Lakh Twelve Thousand Rupees only)
- LOT- 6: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 7: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 8: Rs. 60,00,000/- (Sixty Lakh Rupees only)
- LOT- 9: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 10: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 11: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 12: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 13: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 14: Rs. 60,00,000/- (Sixty Lakh Rupees only)
- LOT- 15: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 16: Rs. 1,09,65,000 /- (One Crore Nine Lakh Sixty Five Thousand Rupees only)
- LOT- 17: Rs. 1,18,04,000 /- (One Crore Eighteen Lakh Four Thousand Rupees only)
- LOT- 18: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 19: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 20: Rs. 60,00,000/- (Sixty Lakh Rupees only)
- LOT- 21: Rs. 60,00,000/- (Sixty Lakh Rupees only)
- LOT- 22: Rs. 1,96,40,000 /- (One Crore Ninety Six Lakh Forty Thousand Rupees only)
- LOT- 23: Rs. 1,17,82,000 /- (One Crore Seventeen Lakh Eighty Two Thousand Rupees only)
- LOT- 24: Rs. 1,98,69,000 /- (One Crore Ninety Eight Lakh Sixty Nine Thousand Rupees only)
- LOT- 25: Rs. 99,21,000/- (Ninety Nine Lakh Twenty One Thousand Rupees only)
- LOT- 26: Rs. 93,88,000/- (Ninety Three Lakh Eighty Eight Thousand Rupees only)

- The Bidder shall quote for all the Lots or part bid among the lots mentioned under Scope of Supply. However, part bidding within the lots is not allowed.
  - Bidder must have minimum 3 years continuous experience in manufacturing / supply of items specified in the Scope of Supply. Attach Purchase Order copies for each year. If bidder is not Manufacturer, bidder shall submit minimum 3 years continuous experience of supply of items of the manufacturer as documentary evidence.
  - Bidder should submit satisfactory certificate from at least 2 reputed clients to whom similar nature of supplies has been rendered. If bidder is not Manufacturer, bidder shall submit satisfactory certificate from at least 2 reputed clients of manufacturer as documentary evidence.
2. The Bidder shall submit Earnest Money Deposit as indicated below against each lot in the form of Demand Draft / Digital Transfer drawn in favour of HMT (International) Limited payable at Bangalore in separate envelopes for each lot in the Technical Bid. .

- LOT -1: Rs. 91,000/- (Rupees Ninety One Thousand Only)
- LOT -2: Rs. 16,000/- (Rupees Sixteen Thousand Only)
- LOT -3: Rs. 75,000/- (Rupees Seventy Five Thousand Only)
- LOT -4: Rs. 51,000/- (Rupees Fifty One Thousand Only)
- LOT -5: Rs. 49,000/- (Rupees Forty Nine Thousand Only)
- LOT -6: Rs. 9,000/- (Rupees Nine Thousand Only)
- LOT -7: Rs. 25,000/- (Rupees Twenty Five Thousand Only)
- LOT -8: Rs. 32,000/- (Rupees Thirty Two Thousand Only)
- LOT -9: Rs. 5,000/- (Rupees Five Thousand Only)
- LOT -10: Rs. 20,000/- (Rupees Twenty Thousand Only)
- LOT -11: Rs. 11,000/- (Rupees Eleven Thousand Only)
- LOT -12: Rs. 15,000/- (Rupees Fifteen Thousand Only)
- LOT -13: Rs. 13,000/- (Rupees Thirteen Thousand Only)
- LOT -14: Rs. 36,000/- (Rupees Thirty Six Thousand Only)
- LOT -15: Rs. 6,000/- (Rupees Six Thousand Only)
- LOT -16: Rs. 74,000/- (Rupees Seventy Four Thousand Only)
- LOT -17: Rs. 79,000/- (Rupees Seventy Nine Thousand Only)
- LOT -18: Rs. 10,000/- (Rupees Ten Thousand Only)
- LOT -19: Rs. 13,000/- (Rupees Thirteen Thousand Only)
- LOT -20: Rs. 44,000/- (Rupees Forty Four Thousand Only)
- LOT -21: Rs. 46,000/- (Rupees Forty Six Thousand Only)
- LOT -22: Rs. 1,31,000/- (Rupees One Lakh Thirty One Thousand Only)
- LOT -23: Rs. 79,000/- (Rupees Seventy Nine Thousand Only)

**LOT- 24: Rs. 1,33,000/- (Rupees One Lakh Thirty Three Thousand Only)**

**LOT- 25: Rs. 67,000/- (Rupees Sixty Seven Thousand Only)**

**LOT- 26: Rs. 63,000/- (Rupees Sixty Three Thousand Only)**

- **Total Earnest Money Deposit to bid for all the Lots is Rs. 11,93,000/- (Rupees Eleven Lakh Ninety Three Thousand Only)**
  - In case, the Bidder quotes for more than one lot, *the Earnest Money Deposit* shall be sum of the value given against each lots.
  - **However, the bidders registered with NSIC will be exempted from payment of EMD on submission of Valid Registration Certificate.**
  - The Bidder shall quote for all the Lots or any lots mentioned under Scope of Supply. However, part bidding within the lots is not allowed.
3. The bidder must be a manufacturer or dealer or HMTI vendor.
  4. Technical bids without prescribed cost toward tender cost & EMD in the form of Demand Draft/ Purchase receipt will be rejected.
  5. Bid documents Purchase Receipt / DD / Digital Transfer in favour of HMT(International) Limited, payable at Bangalore for Rs.2,500/- if tender documents are downloaded from website.
  6. Duly filled Technical bid for each Lot separately with proper seal and signature of the authorized person on each page of the bid submitted.
  7. Complete Scope of Supplies with all necessary details and acceptance of commercial terms and conditions as provided under Section IV & V Lot-wise separately.
  8. Make / Model for each of the item to be specified in the Quotation and the Catalogues to be enclosed with the technical bid.
  9. Bids shall be valid for a minimum period of 90 (ninety) days from the last date of submission.
  10. Furnish acceptance for providing Performance Bank Guarantee for 10% of the contract value in the event of tender being awarded.
  11. Point-wise details for the services/requirements/details required in the bid documents shall be furnished. If there are any deviations, the same should be clearly specified in Annexure-2 of Section-V.
  12. Self attested copy of GST registration certificate as applicable.
  13. List of customers both domestic & overseas to whom similar supplies have been provided in the past 3 years in the prescribed format Section-V, Annexure-3.
  14. Satisfactory certificate from at least 2 reputed client to whom similar nature of supplies has been rendered.
  15. Vendor Registration form – Section – V, Annexure – 6 duly filled {Only for New Vendors of HMT(I)}.
  16. Copy of ISO-9000 Certificate, if applicable.
  17. Payment Terms. As per clause 13.1 in Section-III. Specify deviations if any.
  18. A copy of “Un-Priced Section – V, Annexure–1” i.e., a copy of the Price Schedule without the price details.

**In case of vendors opting for Digital transfer of EMD & Tender document fees, A/c details of HMT(International) Ltd is as detailed below:**

Name:	HMT(International) Limited
Bank:	Bank of Maharashtra City Market Branch Bangalore-560 002 - Branch Code: 304
MICR No:	560014002
Account Type:	Current Account
Account No.	20061601773
IFSC Code:	MAHB0000304
Swift Code:	MAHBINBBBGL

**Envelope II: “COMMERCIAL BID”:** This sealed envelope shall contain price details. This envelope shall be clearly marked “**Part II - Commercial Bid**”, indicating Tender No., Closing Date & Time, Lot Number and bidder address duly filled (**separately for each Lot**).

The Envelope – II should be duly sealed on all joints with wax with an individual design stamped on it or tamperproof sealing using cello tape.

- Prices should be offered in **Indian Rupees only**. Should furnish break up of price as required in Section V; Annexure-I. The prices quoted shall be for **F.O.R Chennai Port** and considered firm and not subject to any change.
- The supplies shall be guaranteed against defects of material and workmanship for a period of 12 months from the date of commissioning. The supplier will arrange for free supply and replace/repair at his cost at site any part that may be found defective and necessitates replacement due to design, manufacture and material defect during warranty period. HMT(I) shall provide airfare, local hospitality to experts deputed during the warranty period as per the mutually agreed terms.
- **All the items for the project are exempted from GST and price will be without GST.** All prices & other information like discount etc., having a bearing on the prices shall be written both in figures & words in the prescribed offer form. In the event of difference, the price in words shall be valid and binding. **If any GST is applicable, the same should be indicated separately.**
- The terms of payment for supplies will be as indicated under clause 13 in Section-III – Terms and conditions of the Contract. The bidder has to accept the payment terms. Any deviation in the payment terms offered shall be considered and suitable Bank interest of 14% per annum will be loaded for comparison purposes only. However acceptance of the payment terms indicated by the bidder is subject to approval of Purchase Committee.
- **The bidder should quote their lowest possible price.**
- HMT(I) shall award the contract to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated Commercial Bid (L1) on lot wise. L1 shall be decided on Lot price basis.

#### 4. **Date of submission of bids and opening of the Technical bid:**

Both the envelopes (Part I & II) Lot-wise shall be put in one cover, duly sealed on all joints with wax with an individual design stamped on it, or put cello tape to ensure it is tamper proof and super scribing Tender No., closing date & time, opening date & time, Lot number and Bidder address.

The envelopes which are not sealed will be rejected straightaway/summarily.

The sealed bids should be dropped in the tender box provided in the HMT(I) office and ensure delivery **on or before 19-12-2018 at 1030 hrs (IST) on the closing date**. Late offers will not be considered.

**Last date for submission of bids: 19<sup>th</sup> December, 2018 up to 10.30 hrs. Technical bids will be opened on 19<sup>th</sup> December, 2018 at 11.00 hrs in the Board room of HMT(I) office, Bangalore.**

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END OF SECTION I

**SECTION II- INSTRUCTIONS TO BIDDERS (ITB)**

<p><b>1</b></p>	<p><b>Definitions and Interpretation</b>  The “HMT(I)” / “BUYER” means: HMT(International) Limited, No.59, Bellary Road, Bangalore-560 032.  The “Supplier” means any firm/institute/company to whom the contract is awarded.  “SITE” means “Indo-Myanmar Industrial Training Centre” (IMITC), Monywa, Myanmar, where the supplies are required to be supplied.  “PROJECT” means “Setting up of Indo-Myanmar Industrial Training Centre” (IMITC), Monywa, Myanmar.</p>
<p><b>2</b> 2.1</p>	<p><b>Compliance of Requirements</b>  The supplies offered should be in accordance with the stipulated requirements in the “Scope of Supply”. The bidder shall indicate his compliance or non-compliance against each of the requirements.</p>
<p><b>3</b></p>	<p><b>Place of Delivery of supplies:</b> All supplies are to be delivered to HMT(I)’s shipping agent at Chennai Port as per the instructions given by HMT(I) at the time of dispatch.</p>
<p><b>4</b></p>	<p><b>Criteria for pre qualification of Bidder</b>  <u><b>The Bidder shall satisfy the following prequalification criteria:</b></u>  The Bidder shall provide satisfactory documentary evidence acceptable to HMT(I) to show that:</p>
<p>4.1</p>	<p>The Bidder’s annual turnover (average) is at least as indicated below in the last three financial years. The Bidders should furnish audited accounts for previous 3 years.</p> <p><b>LOT -1: Rs. 1,26,04,000/- (One Crore Twenty Six Lakh Four Thousand Rupees only)</b>  <b>LOT -2: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT -3: Rs. 1,12,44,000/- (One Crore Twelve Lakh Forty Four Thousand Rupees only)</b>  <b>LOT- 4: Rs. 75,85,000/- (Seventy Five Lakh Eighty Five Thousand Rupees only)</b>  <b>LOT- 5: Rs. 73,12,000/- (Seventy Three Lakh Twelve Thousand Rupees only)</b>  <b>LOT- 6: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 7: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 8: Rs. 60,00,000/- (Sixty Lakh Rupees only)</b>  <b>LOT- 9: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 10: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 11: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 12: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 13: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 14: Rs. 60,00,000/- (Sixty Lakh Rupees only)</b>  <b>LOT- 15: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 16: Rs. 1,09,65,000 /- (One Crore Nine Lakh Sixty Five Thousand Rupees only)</b>  <b>LOT- 17: Rs. 1,18,04,000 /- (One Crore Eighteen Lakh Four Thousand Rupees only)</b>  <b>LOT- 18: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 19: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 20: Rs. 60,00,000/- (Sixty Lakh Rupees only)</b>  <b>LOT- 21: Rs. 60,00,000/- (Sixty Lakh Rupees only)</b>  <b>LOT- 22: Rs. 1,96,40,000 /- (One Crore Ninety Six Lakh Forty Thousand Rupees only)</b>  <b>LOT- 23: Rs. 1,17,82,000 /- (One Crore Seventeen Lakh Eighty Two Thousand Rupees only)</b>  <b>LOT- 24: Rs. 1,98,69,000 /- (One Crore Ninety Eight Lakh Sixty Nine Thousand Rupees only)</b>  <b>LOT- 25: Rs. 99,21,000/- (Ninety Nine Lakh Twenty One Thousand Rupees only)</b>  <b>LOT- 26: Rs. 93,88,000/- (Ninety Three Lakh Eighty Eight Thousand Rupees only)</b></p>
<p>4.2</p>	<p>Bidder must have minimum <b>3 years</b> continuous experience in manufacturing / supply of items specified in the Scope of Supply. <b>Attach Purchase Order copies for each year.</b> If bidder is not Manufacturer, bidder shall submit minimum 3 years continuous experience of supply of items of the manufacturer as documentary evidence.</p>
<p>4.3</p>	<p>Bidder should submit <b>satisfactory certificate from at least 2 reputed clients</b> to whom similar nature of supplies has been rendered. If bidder is not Manufacturer, bidder shall submit satisfactory certificate from 2 reputed clients of manufacturer as documentary evidence.</p>
	<p><b>Bidder who does not submit the above required information along with documentary evidence at the time of bidding; their bid will be rejected.</b></p>
<p><b>5</b></p>	<p><b>Cost of bid documents</b></p>
<p>5.1</p>	<ul style="list-style-type: none"> <li>○ The cost of bid document is Rs 2,500.00 (Rupees Two Thousand Five hundred only).</li> <li>○ The cost shall be payable in the form of a crossed Bank draft / Digital Transfer in favour of HMT (International) Ltd, Payable at Bangalore and kept along with the Technical bid documents in Envelope –I, if the bid documents are down loaded from website.</li> </ul>



**SECTION II- INSTRUCTIONS TO BIDDERS (ITB)**

	<ul style="list-style-type: none"> <li>○ If the documents are purchased from HMT (International) Limited, copy of the receipt for payment of cost of bid documents shall be kept along with the Technical bid documents in Envelope –I.</li> <li>○ In case, the Bidder quotes for more than one lot, the copy of the receipt for payment of cost of bid documents shall be kept along with the Technical bid documents in Envelope –I for each lots separately.</li> <li>○ If the cost of bid document is not paid before opening of the Technical bid, the bids will be rejected straightaway/ summarily.</li> </ul>
<b>6</b>	<b>Earnest Money Deposit</b>
6.1	<p>Earnest Money Deposit for amount as stipulated below shall accompany Technical bid documents of tender.</p> <p><b>LOT -1: Rs. 91,000/- (Rupees Ninety One Thousand Only)</b>  <b>LOT -2: Rs. 16,000/- (Rupees Sixteen Thousand Only)</b>  <b>LOT -3: Rs. 75,000/- (Rupees Seventy Five Thousand Only)</b>  <b>LOT -4: Rs. 51,000/- (Rupees Fifty One Thousand Only)</b>  <b>LOT -5: Rs. 49,000/- (Rupees Forty Nine Thousand Only)</b>  <b>LOT -6: Rs. 9,000/- (Rupees Nine Thousand Only)</b>  <b>LOT -7: Rs. 25,000/- (Rupees Twenty Five Thousand Only)</b>  <b>LOT -8: Rs. 32,000/- (Rupees Thirty Two Thousand Only)</b>  <b>LOT -9: Rs. 5,000/- (Rupees Five Thousand Only)</b>  <b>LOT -10: Rs. 20,000/- (Rupees Twenty Thousand Only)</b>  <b>LOT -11: Rs. 11,000/- (Rupees Eleven Thousand Only)</b>  <b>LOT -12: Rs. 15,000/- (Rupees Fifteen Thousand Only)</b>  <b>LOT -13: Rs. 13,000/- (Rupees Thirteen Thousand Only)</b>  <b>LOT -14: Rs. 36,000/- (Rupees Thirty Six Thousand Only)</b>  <b>LOT -15: Rs. 6,000/- (Rupees Six Thousand Only)</b>  <b>LOT -16: Rs. 74,000/- (Rupees Seventy Four Thousand Only)</b>  <b>LOT -17: Rs. 79,000/- (Rupees Seventy Nine Thousand Only)</b>  <b>LOT -18: Rs. 10,000/- (Rupees Ten Thousand Only)</b>  <b>LOT -19: Rs. 13,000/- (Rupees Thirteen Thousand Only)</b>  <b>LOT -20: Rs. 44,000/- (Rupees Forty Four Thousand Only)</b>  <b>LOT -21: Rs. 46,000/- (Rupees Forty Six Thousand Only)</b>  <b>LOT -22: Rs. 1,31,000/- (Rupees One Lakh Thirty One Thousand Only)</b>  <b>LOT -23: Rs. 79,000/- (Rupees Seventy Nine Thousand Only)</b>  <b>LOT -24: Rs. 1,33,000/- (Rupees One Lakh Thirty Three Thousand Only)</b>  <b>LOT -25: Rs. 67,000/- (Rupees Sixty Seven Thousand Only)</b>  <b>LOT -26: Rs. 63,000/- (Rupees Sixty Three Thousand Only)</b></p> <p><b>Total Earnest Money Deposit to bid for all the Lots is Rs. 11,93,000/- (Rupees Eleven Lakh Ninety Three Thousand Only)</b></p> <p>The Earnest Money Deposit shall be in a crossed Bank Draft/Digital Transfer in favour of HMT (International) Ltd, Payable at Bangalore. <b>In case, the Bidder quotes for more than one lot, the copy of the crossed Bank Draft shall be kept along with the Technical Bid documents in Envelope –I for each lots separately. However, the bidders registered with NSIC will be exempted from payment of EMD on submission of Valid Registration Certificate.</b></p>
6.2	The Earnest Money Deposit shall remain deposited with the HMT(I) for the period of 90 (ninety) days from the date of opening of tenders. If the validity of the offer is extended, the EMD shall remain with HMT(I).
6.3	No interest will be payable by the HMT(I) on the Earnest Money Deposit.
6.4	The Earnest Money deposited is liable to be forfeited if the bidder withdraw or amends, impairs or derogates from the tender in any respect within the validity of his offer.
6.5	The Earnest Money Deposit of the successful bidder will be returned after the P.O. is released on successful Bidder and duly accepted and submission of Performance Guarantee.
6.6	If the successful Bidder fails to furnish a contract performance guarantee, then the earnest money shall be liable to be forfeited.
6.7	The Earnest Money Deposit of all unsuccessful Bidders will be returned to the bidder by HMT(I) after finalization of contract with the successful bidder.
6.8	If Earnest Money for amount as stipulated in clause 6.1 is not enclosed in the Technical documents in Envelope –I, the bid will be rejected.
<b>7</b>	<b>Period of validity of bids</b>
7.1	Bids shall be valid for a minimum period of 90 days from the last date of submission.
7.2	HMT(I) may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in



## SECTION II- INSTRUCTIONS TO BIDDERS (ITB)

	writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid. The technical clarifications, if any, shall be furnished by Bidder within one week's time.
<b>8</b>	<b>Deadlines for submission of bids</b> Bids must be received by HMT(I) before the due date and time at the address specified in the tender document. In the event of the specified date for the submission of bids being declared as a holiday for HMT(I), the bid-closing deadline will stand extended to the next working day up to the same time.
8.1	HMT(I) may extend this deadline for submission of bids by amending the bid documents and same shall be suitably notified in HMT(I) website: <a href="http://www.hmti.com">www.hmti.com</a>
8.2	Any bid received by HMT(I) after the deadline for submission of bids, will not be accepted and returned unopened to the bidder.
<b>9</b>	<b>Opening of Commercial bids by HMT(I)</b>
9.1	The Technical Bids will be evaluated to shortlist the eligible bidders.
9.2	Bidder whose Technical Bid is found to be acceptable and meeting the eligibility requirements as specified in "Clause 4" will be informed about the date and time of the opening of the Commercial Bid.
9.3	HMT(I) will open Commercial Bids of only the technically accepted and short listed bids, in the presence of the bidder or their authorized representative who choose to attend the bid opening, at the time and date to be informed later.
9.4	The bidder's authorized representative who attend the bid opening shall sign an attendance register as a proof of having attended the bid opening.
9.5	The bidder's name, bid prices, discounts and such other details considered as appropriate by HMT(I), will be announced at the time of opening of the Commercial Bids.
<b>10</b>	<b>Comparison of Bids</b> Bids received against the tender will be evaluated by the Technical Evaluation Committee (TEC) for technical suitability and will be shortlisted.
10.1	Short listed Technical bids shall be considered for commercial evaluation and Commercial Bid opening.
<b>11</b>	<b>Award Criteria</b>
11.1	HMT(I) shall award the contract to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated Commercial Bid on lot wise.
11.2	Should the amount put in words differs from the amount put in figures, or if there is an arithmetical error, the lesser amount shall be taken unless the difference is attributable to an obvious error, whereupon the correct amount shall be taken.
11.3	If more than one bidders quotes same lowest price, HMT(I) reserves the right to award the contract at its own discretion.
11.4	HMT(I) reserves the right to increase or decrease the quantum of supplies offered by the successful bidder at the rates & other terms and conditions offered by them. The Bidder is bound to accept the increase or decrease in the quantum of supplies during awarding the contract.
<b>12</b>	<b>HMT(I)'s Right to amend Scope of Supplies</b>
12.1	HMT(I) reserves the right to accept or reject any or all bids without assigning any reason whatsoever.
12.2	HMT(I) reserves the right to increase or decrease the scope of supplies indicated in the bid documents after the award of the tender and payment shall be made on pro-rata basis.
12.3	HMT(I) reserves the right to cancel/short close/extend the order at any given point of time due to Force Majeure or directions from the Governments of India or Myanmar.
12.4	HMT(I) reserves the right to cancel / short close the order due to non-satisfactory performance by any of the service / supply offered. Cost / damages arising out of such cancellation / short closure shall have to be borne by the bidder
12.5	Buyer shall recall any of the experts deputed to the project site on non-compliance to the rule of the land or guidelines laid down by Govt. of India / Govt. of Myanmar / HMT(I) or any act that does not correspond to ethical behavior. Cost / damages arising in such an event shall be borne by the bidder and shall forthwith send suitable replacement.
<b>13</b>	<b>Corrupt or Fraudulent Practices.</b>
13.1	HMT(I) requires that the bidders who wish to bid for this project have highest standards of ethics.
13.2	HMT(I) will reject a bid if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract;
13.3	HMT(I) may declare a vendor ineligible, either indefinitely or for a short period, if HMT(I) is aware that the vendor has engaged in corrupt and fraudulent practice during the execution of the contract.
<b>14</b>	<b>Interpretation of the clauses in the Tender Document / Contract Document</b> In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, HMT(I)'s interpretation of the clauses shall be final and binding on all parties.
<b>15</b>	<b>General</b>
15.1	All offers shall be either Computer prints or hand written neatly in indelible ink. Tenders shall be free from CORRECTION AND ERASURES, and Corrections if any, must be attested. Each page of the offer must be numbered consecutively, should

**SECTION II- INSTRUCTIONS TO BIDDERS (ITB)**

	bear the tender number and should be signed by the Bidder at the bottom. A reference to the total number of pages comprising offer must be made at the top right hand corner of the first page.
15.2	The Bidders must ensure that the conditions laid down for submission of offers detailed in the preceding paras, are completely and correctly fulfilled.
15.3	The submission of any offer connected with these supplies and documents shall constitute an agreement that the Bidder shall have no cause of action or claim, against HMT(I) for rejecting the offer. HMT(I) shall always be at liberty to reject or accept any offer or offers at its sole discretion
15.4	Offers shall be deemed to be under consideration immediately after they are opened and until such time the official intimation of award of contract is made by HMT(I) to the Bidder. While the offers are under consideration, Bidders and or their representatives or other interested parties are advised to refrain from contacting HMT(I) by any means. If necessary, HMT(I) will obtain clarifications on the offers by requesting for such information from any or all the Bidders, only in writing. Bidders will not be permitted to change the contents of their offers after the offers have been opened.
15.5	Any individual(s) signing the tender and related documents should be a competent authorised person or original copy of power of authorization issued by the competent authority should accompany the tender.
15.6	Offers shall be as per the Instructions to Bidders and Terms & Conditions of contract given in bid documents. However the Bidder shall indicate his acceptance or otherwise against each of clause and sub clauses of the Instruction to Bidders and Terms & Condition of contract. For this purpose, the Bidder shall enclose a separate statement as per format Section-V(2) indicating only the deviations from any clause or sub clause of the Instructions to Bidders and Terms & Conditions of contract which Bidder proposes with justification for each deviation. The HMT(I), however reserves the right to accept or reject these deviations and decision there on shall be final and binding.
15.7	Bids shall be complete in all respects accompanied by detailed literature, brochures with all necessary details in ENGLISH or otherwise, the bids will not be considered.
	<b>End of SECTION-II</b>

<b>SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)</b>	
1	<u>Execution:</u> Metric System
2	<u>Colour :</u> As specified in the Technical Specifications.
3	<u>Electricals:</u> Main supply: <b>400 V, 3 Ph, 50Hz AC / 230 V, 1 Ph, 50Hz AC Supply</b>
4	<u>Delivery period for supplies:</u> F.O.R Chennai Port within 8 weeks from the date of purchase order. Delivery is the essence of the Contract. If there is delay penalty as per clause 14 is applicable.
5	<p><u>Inspection, Re inspection and Acceptance:</u> The items shall be manufactured as per International Standards. The standards followed should be accepted by HMT(I). For this purpose, the supplier shall furnish HMT(I) the standards being followed immediately for acceptance. The supplies will be inspected by HMT(I) as decided by HMT(I). If any of the item is found defective, HMT(I) reserves right to procure the substitute for the defective items from elsewhere at the risk and cost of the supplier and recover from the supplier the extra expenditure, if any incurred by HMT(I). Consignment shall be dispatched only after getting acceptance letter from HMT(I).</p> <p>The supplies will be inspected by HMTI by deputing HMTI's quality assurance personnel to the vendor's worksite. Inspection and other deputation charges for the deputation of HMTI personnel shall have to be borne by the vendor.</p> <p>At least 2 weeks prior intimation regarding readiness of supplies, in all respects must be furnished to HMT(I) for inspection by HMT(I) Quality Assurance Department or by its authorized representative. All equipment including packing cases must be offered for inspection. HMT(I) reserves right to inspect the items by HMT(I) and customer representative at supplier's works.</p> <p>Vendor has to indicate the number of days of inspection required for each of the equipment quoted by them separately.</p>
6	<p><u>Re-Inspection:</u> HMT(I) reserves the right to re-inspect the supplies, only in cases where the HMT(I) Inspection Engineers recommend for such cases after completion of modifications suggested during the inspection. All costs towards re-inspection will have to be borne by the vendor.</p>
7	<p><u>Packing:</u> All Supplies shall be packed in seaworthy wooden cases (as per international standard) suitable for shipment by 20ft / 40 ft containers of size (LXBXH): 5900mmx2300mmx2300mm / 12000mmx2300x2300mm respectively. Packing cases must have case-wise detailed packing list to be put inside the cases. Also, 3 copies of casewise packing list to be sent to HMT(I) immediately after packing. All loose items to be tagged with Sl. No. as per PO. Packing to be made in the presence of HMT(I) inspection engineers.</p>
8	<u>Port of Shipment and Discharge:</u> Chennai Port and Port Yangon, Myanmar.
9	<u>Freight &amp; Insurance:</u> Supplier to dispatch the goods on Freight Prepaid –Door Delivery basis to HMT(I) shipping agent at Chennai Port of shipment. Transit insurance to be arranged by supplier. Supplier to inform HMT(I), despatch details like Lorry receipt No., No. of Packing cases, Gross Weight, Net Weight etc., immediately after dispatch from works.
10	<u>Consignee:</u> Consignee will be intimated later
11	<u>Invoice to :</u> HMT (International) Limited, 59, Bellary Road, Bangalore – 560 032, India TIN NO. 29760097661/GST No. 29AAACH8197C1ZD. A/c. IMITC MONYWA, MYANMAR.
12	<u>Price:</u> The price shall be F.O.R Chennai Port and considered firm and no escalation will be permitted.
13.1	<p><b><u>Payment Terms for supplies:</u></b></p> <ul style="list-style-type: none"> <li>80% payment for supplies shall be payable on 60<sup>th</sup> day from the date of delivery to our shipping agent at Chennai port through RTGS / NEFT. If the payment terms are not acceptable, the vendor can quote their own payment terms. However, the acceptance of the payment terms indicated is at the sole discretion of the Management.</li> <li>Balance 20% payment for supplies shall be paid through RTGS/NEFT after successful Installation and Commissioning / handing over of all the items on physical verification of equipment / material at project site by the Project Monitoring Committee (PMC) duly constituted by Ministry of External Affairs or 6 months from the date of delivery to our shipping agent at Chennai port whichever is earlier.</li> </ul>
13.2	<p><b><u>Payment for services portion for LOTS – 3,4,5,7,8,22,23,24 &amp;25</u></b> The payment shall be paid through RTGS/NEFT after successful Installation and Commissioning of all the items on physical verification of equipment / material at project site by the Project Monitoring Committee (PMC) duly constituted by Ministry of External Affairs or 2 months from the date of successful Installation and Commissioning certified by HMT(I) representative at site whichever is earlier.</p>
14	<p><b><u>Penalty for delayed Supply and Services:</u></b> HMT(I) reserves the right to levy penalty @ 1.0 percent of order value per week of delay beyond the scheduled deliveries / execution of the contract successfully, subject to maximum of 10% of the contract value. HMT(I) reserves the right to</p>

	cancel the contract in case the delay is more than 10 weeks. The penalties, if any shall be recovered by invoking the Performance Bank Guarantee or withholding the amount out of the payments due.
15	<p><b>Clearance for Despatch:</b> Equipment shall be dispatched only after getting acceptance letter from HMT(I). Such clearance shall be furnished only after receipt of a certificate from Supplier stating that the snags, if any, pointed out by HMT(I) Engineer/Customer's representative have been duly attended to. HMT(I) shall have the right to hold up the dispatch for want of any clearance from the customer. The consignment shall be shipped through a reputed Transporters in a direct truck to reach HMT(I)'s shipping agent with out any transshipment.</p>
16	<b>Name &amp; Address of the Shipping Agent :</b> Will be informed at the time of dispatch clearance by HMT(I).
17	<p><b>Technical Documents:</b> Supplier to forward the detailed drawings of the all machines / equipment in 3 sets, indicating details about civil work required, Electrical, Pneumatic, Water connection points etc., immediately on receipt of Purchase Order. Instruction / Operating Systems / Spare Parts Manual and other relevant documents pertaining to the Equipment must be in English and should be supplied in (3) three sets as follows :</p> <ul style="list-style-type: none"> <li>○ 2 Sets of Manuals along with the machine / equipment</li> <li>○ 1 set Manual to HMT(I), Bangalore</li> <li>○ Two copies of Electrical wiring drawings (along with the machine / equipment)</li> <li>○ Instructions for commissioning (One copy along with the machine / equipment) and one copy to HMT(I)</li> <li>○ Final Test &amp; Inspection Report (along with the machine / equipment)</li> </ul>
18	<p><b>Bought Outs:</b> All the bought-out items such as bearings, belts, electricals, motors, contactors, switches etc., shall correspond to ISI / International Specifications and shall be of reputed make like, SKF, FENNER, SIEMENS &amp; TELEMECHANIC etc.,</p>
19	<p><b>Rejection &amp; Risk:</b> If, HMT(I) finds that the materials supplied are not of correct quality or not according to the specifications as indicated in the bid offer, then HMT(I) will be entitled to reject the machine/equipment without any cost obligation on HMT(I).</p>
20	<p><b>Performance Bank Guarantee (PBG):</b> The successful bidder will be required to furnish Performance Bank Guarantee for 10% amount of the FOR price for the supplies value, as per the format attached to this document (Refer Section – V; Annexure – 4). This bank guarantee shall remain valid until the expiry of warranty period or for the period of 12 months beyond the completion of Erection &amp; Commissioning. If the Bidder is not acceptable to furnish Performance Guarantee 10% of the FOR price for the supplies value will be retained as “retention money” till expiry of warranty period or for the period of 12 months beyond the completion of Erection &amp; Commissioning. Performance Bank Guarantee for 10% of the FOR price for the supplies value is required for the Lots mentioned.</p>
21	<p><b>International Warranty:</b> The supplies shall be guaranteed against defects of material and workmanship for a period of 12 months from the date of commissioning or 15 months from the date of shipment, whichever is earlier. Until the expiry of the warranty period, the supplier is obliged to do repairs, modifications, setting right and adjustments considered necessary to guarantee the rated output and to replace any part of the machine / equipment found defective and necessitate replacement due to design, manufacture, and material defect during the warranty period at vendors cost at project site in Myanmar. HMT(I) has to provide total warranty for the complete project for 1 year from the date of handing over to the concerned authorities. Since the vendors are providing 12 months warranty from the date of commissioning the items at site or 15 months from date of shipment, to cover up the liability and commitment till completion of warranty of 12 months from the date of handing over, 6% + applicable GST of the quoted FOR cost indicated will be charged towards inspection, trails &amp; warranty spares costs, travelling expenses and service charge for the deputation of HMTI / vendor experts to site for carrying out servicing/maintenance/ repair at site. This amount is to be paid to HMT(I) within 60 days from the date of receipt of material at HMT(I)'s shipping agent. The supplier will arrange for free supply and replace/repair at his cost at site any part that may be found defective and necessitates replacement due to design, manufacture and material defect during the extended warranty period. HMT(I) shall provide airfare, local hospitality to experts deputed during the warranty period as per the mutually agreed terms.</p>
22	<ul style="list-style-type: none"> <li>○ <b>Installation for LOTS – 3,4,5,7,8,22,23,24 &amp;25</b></li> <li>○ The supplier shall depute, the required technical personnel for carrying out installation and providing training to the customer's personnel in operation &amp; maintenance of items in LOTS– 3,4,5,7,8,22,23,24 &amp;25 at project site in Myanmar.</li> <li>○ HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier.</li> <li>○ The supplier shall depute their personnel within 15 days from the date of intimation of readiness at project site in Myanmar.</li> <li>○ All necessary tooling, instruments etc., which are required for installation will be carried by the supplier</li> <li>○ Necessary tools, fixtures, instruments, trail materials, consumables etc., for installation to be sent along with the items.</li> </ul>

	<p>o In case the technical personnel extended their period of stay beyond the stipulated/required/agreed time, the additional cost for their extended stay has to be borne by the supplier.</p>
23	<p><u>Arbitration:</u> All disputes of any kind arising out of supply, acceptance, warranty maintenance etc., shall be referred after issuance of 30 days notice in writing clearly mentioning the nature of dispute to a single arbitrator to be appointed by HMT(I). The venue for arbitration shall be Bangalore.</p>
24	<p><u>Jurisdiction:</u> The disputes, legal matters, court matters, if any shall be subject to Bangalore jurisdiction only.</p>
25	<p><u>Force Majeure:</u> HMT(I) may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the Contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises. Either party shall be excused from performance of their obligation during or to the extent that performance is prevented by the occurrence of unforeseen causes beyond the control of and without the negligence of the party claiming excuse. Such causes shall include, without limitation, strike, go slow , other concerted acts of workmen, lockout, Act of God, war, fire, explosion, action of elements, flood, epidemic, riot, sabotage, embargo, blockade, civil disturbance and Governmental restrictions or limitations etc. The party claiming excuse shall give immediate written notice thereof to the other, in any case not later than 15 (fifteen) days, following the occurrence of such event. If performance is held for a continuous period of more than 3 (three) months from the date of first notice, then the parties shall review the situation and agree upon any course of action so as to protect the interest of both.</p>
	<p><b>End of Section III</b></p>

**SECTION – IV: SCHEDULE OF REQUIREMENTS / SCOPE OF SUPPLIES (SR)**

Schedule of Requirements / Scope of Supplies is as detailed below

**LOT – 1 Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd. Power Hacksaw**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 5 of Annex 5	Pillar Drilling Machine	Cap. 25 mm	2
2	Sl. No 99 of Annex 4	Pillar Drilling Machine	Cap. 25 mm	1
3	Sl. No 45 of Annex 7	Pillar Drilling Machine	Cap. 25 mm	3
4	Sl. No 11 of Annex 6	Pillar Drilling Machine	Cap. 25 mm	1
5	Sl. No 36 of Annex 8	Pillar Drilling Machine	Cap. 20 mm	2
6	Sl. No 13 of Annex 9	Pillar Drilling Machine	Cap. 13 mm	2
7	Sl. No 6 of Annex 5	Pillar Drilling Machine	Cap. 13 mm	2
8	Sl. No 44 of Annex 7	Pedestal Grinder	Wheel dia 200 mm	3
9	Sl. No 9 of Annex 5	Pedestal Grinder	Wheel dia 200 mm	2
10	Sl. No 12 of Annex 6	Pedestal Grinder	Wheel dia 200 mm	1
11	Sl. No 9 of Annex 9	Pedestal Grinder	Wheel dia 200 mm	2
12	Sl. No 100 of Annex 4	Pedestal Grinder	Wheel dia 200 mm	1
13	Sl. No 37 of Annex 8	Pedestal Grinder	Wheel dia 200 mm	2
14	Sl. No 8 of Annex 5	Hydraulic power hacksaw	Cutting capacity Round dia 200mm	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

**LOT – 2 Vertical Bandsaw machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 7 of Annex 5	Vertical Band saw machine	Dia 450 mm	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

**LOT – 3 Automatic Plastic Injection Moulding M/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 5 of Annex 6	Automatic Plastic Injection Moulding M/c	Locking force 180T, shot capacity 350 grams	1
2	Sl. No 6 of Annex 6	Tooling with colour mixer, scrap grinder, Oven, cooling tower etc. for plastic injection moulding m/c		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				



#### **LOT – 4 Electro Discharge M/c (EDM) CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 2 of Annex 6	Electro Discharge M/c (EDM) CNC	Work Tank : 800 x 500 x 350 mm	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 5 Wire Cut EDM CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 3 of Annex 6	Wire Cut EDM CNC	Max Work piece: 350 x 450 x 200 mm	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 6 Testing Machines**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 70 of Annex 6	Universal Testing Machine		1
2	Sl. No 71 of Annex 6	Hardness Tester		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 7 Hydraulic Press 100T**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 15 of Annex 6	Hydraulic Press	100T	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 8 Mechanical Press**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 16 of Annex 6	Mechanical Press	10T	1
2	Sl. No 17 of Annex 6	Mechanical Press	100T	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 9 Circle Cutting M/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 6 of Annex 9	Circle cutting m/c	Max dia 600 mm	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 10 Nibbling – Cropping - Punching M/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 4 of Annex 9	Nibbling – Cropping - Punching M/c	All in one machine	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT – 11 Roll Bending M/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 3 of Annex 9	Roll Bending M/c	Cap 3 x 1250 mm	1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 12 Profile Projector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 51 of Annex 6	Profile projector		1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 13 Tool Pre setter with DRO & Projector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 14 of Annex 6	Tool pre setter with DRO & Projector	For machining centre	1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 14 Mechanical Guillotine shear & Hydraulic Press Brake**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 1 of Annex 9	Mechanical Guillotine Shear	Cap 3 x 2000 mm	1
2	Sl. No 2 of Annex 9	Hydraulic Press Brake	Cap 3 x 2000 mm	1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 15 Coil winding M/c CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 165 of Annex 8	Coil Winding m/c	CNC	1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT- 16 Shop Furniture**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 75 of Annex 9	Arc Welding Table		1
2	Sl. No. 76 of Annex 9	Gas Welding Table		1
3	Sl. No. 77 of Annex 9	Gas cutting Table		1
4	Sl. No. 73 of Annex 9	Gas Cylinder Trolley		2
5	Sl. No. 102 of Annex 4	Gas Cylinder Truck two wheeler type		2
6	Sl. No. 89 of Annex 6	Hand trolley		5
7	Sl. No. 25 of Annex 1	Machine side cabinet		5
8	Sl. No. 93 of Annex 5	Machine side cabinet		20

9	Sl. No. 102 of Annex 6	Machine side cabinet		17
10	Sl. No. 129 of Annex 8	Material Storage Cabinet		2
11	Sl. No. 130 of Annex 8	Tool Storage Cabinet		2
12	Sl. No. 131 of Annex 8	Equipment storage cabinet		2
13	Sl. No. 24 of Annex 1	Personal locker	8 lockers	3
14	Sl. No. 52 of Annex 2	Personal locker	8 lockers	3
15	Sl. No. 31 of Annex 3	Personal locker	8 lockers	3
16	Sl. No. 149 of Annex 4	Personal locker	8 lockers	2
17	Sl. No. 92 of Annex 5	Personal locker	8 lockers	3
18	Sl. No. 126 of Annex 6	Personal locker	8 lockers	3
19	Sl. No. 145 of Annex 7	Personal locker	8 lockers	3
20	Sl. No. 169 of Annex 8	Personal locker	8 lockers	3
21	Sl. No. 83 of Annex 9	Personal locker	8 lockers	3
22	Sl. No. 23 of Annex 1	Slotted Angle Rack		4
23	Sl. No. 49 of Annex 2	Slotted Angle Rack		4
24	Sl. No. 38 of Annex 3	Slotted Angle Rack		6
25	Sl. No. 196 of Annex 4	Slotted Angle Rack		2
26	Sl. No. 91 of Annex 5	Slotted Angle Rack		4
27	Sl. No. 100 of Annex 6	Slotted Angle Rack		4
28	Sl. No. 152 of Annex 7	Slotted Angle Rack		4
29	Sl. No. 176 of Annex 8	Slotted Angle Rack		6
30	Sl. No. 85 of Annex 9	Slotted Angle Rack		4
31	Sl. No. 94 of Annex 5	Tool Storage Cabinet		4
32	Sl. No. 101 of Annex 6	Tool Storage Cabinet		8
33	Sl. No. 90 of Annex 6	Storage Cabinet	For storage of drawings	2
34	Sl. No. 17 of Annex 1	Workshop stools		20
35	Sl. No. 12 of Annex 2	Workshop stools	Dia 12'	20
36	Sl. No. 32 of Annex 3	Workshop stools		20
37	Sl. No. 85 of Annex 5	Workshop stools		20
38	Sl. No. 122 of Annex 6	Workshop stools		20
39	Sl. No. 146 of Annex 7	Workshop stools		20
40	Sl. No. 170 of Annex 8	Workshop stools		20
41	Sl. No. 74 of Annex 9	Workshop stools		20
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT- 17 Office Furniture**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 7 of Annex 1	Computer Table with chair set		22
2	Sl. No. 20 of Annex 6	Computer Table with chair set		22
3	Sl. No. 12 of Annex 10	Computer Furniture		22

4	Sl. No. 20 of Annex 1	Cupboard - Major		4
5	Sl. No. 46 of Annex 2	Cupboard - Major		5
6	Sl. No. 35 of Annex 3	Cupboard - Major		4
7	Sl. No. 147 of Annex 4	Cupboard - Major		2
8	Sl. No. 88 of Annex 5	Cupboard - Major		4
9	Sl. No. 120 of Annex 6	Cupboard - Major		4
10	Sl. No. 149 of Annex 7	Cupboard - Major		2
11	Sl. No. 173 of Annex 8	Cupboard - Major		4
12	Sl. No. 81 of Annex 9	Cupboard - Major		4
13	Sl. No. 21 of Annex 1	Cupboard - Minor		4
14	Sl. No. 47 of Annex 2	Cupboard - Minor		5
15	Sl. No. 36 of Annex 3	Cupboard - Minor		4
16	Sl. No. 148 of Annex 4	Cupboard - Minor		2
17	Sl. No. 89 of Annex 5	Cupboard - Minor		4
18	Sl. No. 121 of Annex 6	Cupboard - Minor		4
19	Sl. No. 150 of Annex 7	Cupboard - Minor		2
20	Sl. No. 174 of Annex 8	Cupboard - Minor		4
21	Sl. No. 82 of Annex 9	Cupboard - Minor		4
22	Sl. No. 18 of Annex 1	Instructor Table		1
23	Sl. No. 44 of Annex 2	Instructor Table		2
24	Sl. No. 33 of Annex 3	Instructor Table		1
25	Sl. No. 151 of Annex 4	Instructor Table		1
26	Sl. No. 86 of Annex 5	Instructor Table		1
27	Sl. No. 123 of Annex 6	Instructor Table		1
28	Sl. No. 147 of Annex 7	Instructor Table		1
29	Sl. No. 171 of Annex 8	Instructor Table		1
30	Sl. No. 79 of Annex 9	Instructor Table		1
31	Sl. No. 19 of Annex 1	Instructor Chair		1
32	Sl. No. 45 of Annex 2	Instructor Chair		2
33	Sl. No. 34 of Annex 3	Instructor Chair		1
34	Sl. No. 152 of Annex 4	Instructor Chair		1
35	Sl. No. 87 of Annex 5	Instructor Chair		1
36	Sl. No. 124 of Annex 6	Instructor Chair		1
37	Sl. No. 148 of Annex 7	Instructor Chair		1
38	Sl. No. 172 of Annex 8	Instructor Chair		1
39	Sl. No. 80 of Annex 9	Instructor Chair		1
40	Sl. No. 11 of Annex 2	Cutting Table	6' x 6'	5
41	Sl. No. 14 of Annex 2	Ironing Table	6' x 6'	2
42	Sl. No. 15 of Annex 2	Lecture Chairs		20
43	Sl. No. 16 of Annex 2	Visitor Chair		6

44	Sl. No. 22 of Annex 1	White Board	6' x 4' (With pen set & Duster)	1
44	Sl. No. 43 of Annex 2	White Board	6' x 4' (With pen set & Duster)	1
44	Sl. No. 90 of Annex 5	White Board	6' x 4' (With pen set & Duster)	1
44	Sl. No. 125 of Annex 6	White Board	6' x 4' (With pen set & Duster)	1
44	Sl. No. 151 of Annex 7	White Board	6' x 4' (With pen set & Duster)	1
44	Sl. No. 84 of Annex 9	White Board	6' x 4' (With pen set & Duster)	1
45	Sl. No. 93 of Annex 6	Inspection Table	1.5 x 1 x 0.75 m with light	2
46	Sl. No. 27 of Annex 1	Plastic bin Stand		2
47	Sl. No. 40 of Annex 3	Plastic bin Stand		2
48	Sl. No. 96 of Annex 5	Plastic bin Stand		4
49	Sl. No. 154 of Annex 7	Plastic bin Stand		4
50	Sl. No. 178 of Annex 8	Plastic bin Stand		2
51	Sl. No. 26 of Annex 1	Plastic bin (Set)	3 sizes	140
52	Sl. No. 39 of Annex 3	Plastic bin (Set)	3 sizes	140
53	Sl. No. 95 of Annex 5	Plastic bin (Set)	3 sizes	280
54	Sl. No. 153 of Annex 7	Plastic bin (Set)	3 sizes	280
55	Sl. No. 177 of Annex 8	Plastic bin (Set)	3 sizes	140
56	Sl. No. 99 of Annex 6	Plastic bin (Set)	3 sizes	70
57	Sl. No. 51 of Annex 2	Plastic bins	Assorted sizes	1 lot
58	Sl. No. 50 of Annex 2	Shelving Unit		2
59	Sl. No. 28 of Annex 1	Scrap bins	120 litres	2
60	Sl. No. 48 of Annex 2	Scrap bins	120 litres	2
61	Sl. No. 98 of Annex 5	Scrap bins	120 litres	4
62	Sl. No. 88 of Annex 9	Scrap bins	120 litres	4

### **LOT – 18 Surface Tables, Angle Plates**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 53 of Annex 6	Surface Table with stand	1000 x 1000 Granite make	2
2	Sl. No 59 of Annex 6	Surface Table with stand	1000 x 1000 C I make	2
3	Sl. No 53 of Annex 5	Surface Table with stand	1000 x 1000 C I make	1
4	Sl. No 76 of Annex 7	Marking out Table with stand	1000 x 1000 C I make	2
5	Sl. No 65 of Annex 9	Surface Table with stand	1000 x 1000 C I make	1
6	Sl. No 77 of Annex 4	Surface Table with stand	600 x 450 mm C I make	1
7	Sl. No 78 of Annex 4	Cast Iron Angle plate with T slots	250 x 200 x 150 mm	2
8	Sl. No 40 of Annex 5	Cast Iron Angle plate with T slots	250 x 200 x 150 mm	2
9	Sl. No 88 of Annex 6	Cast Iron Angle plate with T slots	250 x 200 x 150 mm	2

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 19 Misc. Measuring Instruments**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 58 of Annex 5	Feeler Gauge Rolls (mts)	0.03mm & 0.05 mm	6
2	Sl. No 48 of Annex 6	Feeler Gauge Rolls (mts)	0.03mm & 0.05 mm	6
3	Sl. No 119 of Annex 4	Feeler gauge	0.05 mm-1 mm	1
4	Sl. No 57 of Annex 6	Moarse Taper gauge - Set of Plug and ring type	MT1, MT2, MT3	2
5	Sl. No 71 of Annex 5	Morse Taper Gauge- Plug and Ring type	MT1, MT2,MT3	1
6	Sl. No 61 of Annex 5	Plug Gauge Set	Inch and Metric assorted	1 lot
7	Sl. No 50 of Annex 6	Plug gauge-set	Inch and Metric Assorted sizes	1 lot
8	Sl. No 64 of Annex 9	Protractor & combination square set		2
9	Sl. No 52 of Annex 6	Radius gauge- set	1-7 mm & 7.5 – 15 mm	1
10	Sl. No 62 of Annex 5	Radius Gauge Sets	1-7 mm & 7.5 – 15 mm	1
11	Sl. No 62 of Annex 9	Radius gauges	0.4 - 13 mm range	6
12	Sl. No 60 of Annex 5	Ring Gauge Set	Inch and Metric assorted	1 lot
13	Sl. No 97 of Annex 5	Sine Bar	150mm	1
14	Sl. No 55 of Annex 6	Sine bar	150 mm	1
15	Sl. No 59 of Annex 5	Thread Pitch Gauge	0.5mm -6mm metric 60 deg	2
16	Sl. No 64 of Annex 5	Thread Plug & Ring Gauge Set		1 lot
17	Sl. No 49 of Annex 6	Thread Plug & Ring Gauge Set		1 lot
18	Sl. No 64 of Annex 8	Wire Gauge		8
19	Sl. No 63 of Annex 9	Wire Gauge	Rectangular	6
20	Sl. No 120 of Annex 4	Wire Gauge metric and with worth		1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT 20 Work Benches**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 14 of Annex 1	Work benches	5' x 3' twin station with vice	8
2	Sl. No 146 of Annex 4	Work benches	5' x 3' twin station with vice	4
3	Sl. No 10 of Annex 5	Work benches	5' x 3' twin station with vice	8
4	Sl. No 91 of Annex 6	Work benches	5' x 3' twin station with vice	8
5	Sl. No 57 of Annex 7	Work benches	5' x 3' twin station with vice	4
6	Sl. No 30 of Annex 9	Work benches	5' x 3' twin station with vice	6
7	Sl. No 25 of Annex 8	Work benches	Electrical Twin station	6

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT 21 Pallet Roll, Pallet Truck & Pallet Crane**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 197 of Annex 4	Pallet Roll	2500 kgs	2



2	Sl. No 99 of Annex 5	Pallet Roll	2500 kgs	2
3	Sl. No 94 of Annex 6	Pallet Roll	2500 kgs	2
4	Sl. No 95 of Annex 6	Pallet Truck	2500 kgs	1
5	Sl. No 51 of Annex 7	Pallet Roll	2500 kgs	2
6	Sl. No 27 of Annex 9	Pallet Roll	2500 kgs	1
7	Sl. No 100 of Annex 5	Pallet Crane	3000 kgs	1
8	Sl. No 96 of Annex 6	Pallet Crane	3000 kgs	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT 22 Mechatronics Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 1 of Annex 1 Mechatronics	PLC Trainer Kit	PLC Trainer Kit including Static & Dynamic Modules	1
2	Sl. No 2 of Annex 1 Mechatronics	Digital Sensor Module		1
3	Sl. No 3 of Annex 1 Mechatronics	Analog Sensor Module		1
4	Sl. No 4 of Annex 1 Mechatronics	Dynamic Module	With Sensor Module and Relay Module	1
5	Sl. No 5 of Annex 1 Mechatronics	Linear Transfer System	Complete workstation mounted on a aluminum profile plate with operating console, consisting of: Belt conveyor, Linear pick & place unit, Horizontal transfer unit, Transfer Module (Rotary Pick & Place Unit), 6 Station Rotary Carousel Table, Drilling module.	1
6	Sl. No 6 of Annex 1 Mechatronics	Six Axis Robot	Articulated ROBOT - PC Controlled 6 Axis with pedestal base, 2.5 Kgs Payload capacity, Pneumatic Gripper, Robot Controller, Windows 98 based Robot Controlling software.	1
7	Sl. No 7 of Annex 1 Mechatronics	Robot Application Experimental Kit	With experiment table, Pneumatic chuck, Pneumatic vice, Pick & Place- Vertical stacking & Horizontal Palletizing, assembly & dismantling, Gluing experiment kit, Testing bank of push button switches, Painting kit	1
8	Sl. No 8 of Annex 1 Mechatronics	Integration of ROBOT with Automation	4 Axis Assembly Robotic ARM with Pallet & Robot Controller Software, Weighing & Palletizing System With integration of Robot with Complete Workstation Mounted on a Aluminium Profile Plate, Belt Conveyor, Rotary Pick & Place Manipulator, Weighing Module and PLC	1
9	Sl. No 10 of Annex 1 Mechatronics	Mechatronics Software	For Basic Simulation	1 Lot
			FOR Advanced simulation	
			Robotic Simulation	
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

## LOT – 23 Apparel Manufacturing equipment

<b>Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.</b>				
<b>Sl. No.</b>	<b>Annex. Ref.</b>	<b>Description</b>	<b>Brief Specification</b>	<b>Qty In Nos.</b>
1	Sl No. 1 of Annex 2	Lock Stitch Machine	Motorised	20
2	Sl No. 2 of Annex 2	Lock Stitch machine with UBT	Motorised	1
3	Sl No. 3 of Annex 2	Button Hole Stitching Machine	Electronic	1
4	Sl No. 4 of Annex 2	Button Stitching machine	Single needle lockstitch machine	1
5	Sl No. 5 of Annex 2	Front Flacket Machine	Motorised	1
6	Sl No. 6 of Annex 2	Cutting Machine	Motorised	1
7	Sl No. 7 of Annex 2	Over Locking machine	2 needle 5 thread overlock machine	1
8	Sl No. 8 of Annex 2	Over Locking machine	1 needle 3 thread overlock machine	1
9	Sl No. 9 of Annex 2	Zig Zag Stitching machine	1 needle lock stitch machine	1
10	Sl No. 10 of Annex 2	Iron Box	Vacuum based with steam generator	1
11	Sl No. 13 of Annex 2	Work Aids	Basic yoke attach folder, hemming folder, placket folder etc.	1 Lot
12	Sl No. 17 of Annex 2	Linen Tape	2 meters	20
13	Sl No. 18 of Annex 2	Scissors	Assorted size	20 Sets
14	Sl No. 19 of Annex 2	Needles	Assorted size	20 Sets
15	Sl No. 20 of Annex 2	Fabric Cutting Aids	Assorted size	20 Sets
16	Sl No. 21 of Annex 2	Buttons/Hooks/Pins etc.	Assorted size	20 Sets
17	Sl No. 23 of Annex 2	Scissors	Brass handle 25 cms	20
18	Sl No. 24 of Annex 2	Tailor's Square	Material: Wooden / Plastic Size: 300 mm x 600 mm	20
19	Sl No. 25 of Annex 2	Leg Shaper	Material: Wooden / Plastic Size: 24"	20
20	Sl No. 26 of Annex 2	Cloth Brush	Wooden handle 3" bristles 5"	20
21	Sl No. 27 of Annex 2	Tracing Wheel	Wooden handle with iron wheel 3"	1
22	Sl No. 28 of Annex 2	Measuring Tape	Material: Rubberised Linen Size: 150 cms	20
23	Sl No. 29 of Annex 2	Seam Ripper	Size: 3" Plasti handle	20
24	Sl No. 30 of Annex 2	Timble	Size: 1.5 cms open type steel	20
25	Sl No. 31 of Annex 2	Tailor's card triangle	Size: 60 cm length (Card scale)	20
26	Sl No. 32 of Annex 2	Tailors art curve	Material: Wooden / Plastic Size: 30 x 60 cm	20
27	Sl No. 33 of Annex 2	French Curve	Material: Plastic Size: 6" to 8" set of 3	20
28	Sl No. 34 of Annex 2	Button Hole Scissors	Material: Steel Size: 4"	5
29	Sl No. 35 of Annex 2	Pinking Scissors	Material: Steel Size: 8"	5
30	Sl No. 36 of Annex 2	Left hand scissors	Material: Steel Size: 25 cm	4
31	Sl No. 37 of Annex 2	Shear	Brass handle 10" to 12", Size: 30 cm	2
32	Sl No. 38 of Annex 2	Gum tape dispenser	For office use	1
33	Sl No. 39 of Annex 2	Rubber Mat	Size: 300 x 1250 x 25 mm	4
34	Sl No. 40 of Annex 2	Garment Sprayer	Material: Plastic, Size: 6"	4
35	Sl No. 41 of Annex 2	Blanket of size 5" x 8" for padding as pressing table	Size: 5' x 8'	4
36	Sl No. 42 of Annex 2	Milton cloth double width	Size: 2 meters Colour: Brown / Green	8
37	Sl No. 53 of Annex 2	Consumable material	Stainless steel mesh left hand glove	10 nos

## LOT – 24 Refrigeration & Airconditioning Trainers

Sl. No	Enclosure.Ref	Description	Brief Specification	Qty
1	SI No 1 of Annex 4	Refrigeration Test Rig	Trainer	1
2	SI No 2 of Annex 4	Walking Cooler	Capacity 3000Kcal/hr	1
3	SI No 4 of Annex 4	Cut section model: Open, Semi-sealed and sealed compressor	Set of 3	1
4	SI No 5 of Annex 4	Heat Exchanger Shell & Tube Type		1
5	SI No 6 of Annex 4	Heat Exchanger tube in tube type		1
6	SI No 7 of Annex 4	Refrigeration tutor		1
7	SI No 8 of Annex 4	Package air conditioner		1
8	SI No 9 of Annex 4	Automobile Air Conditioner		1
9	SI No 10 of Annex 4	Split type Air Conditioner		1
10	SI No 11 of Annex 4	Air conditioner		1
11	SI No 12 of Annex 4	Room Air Conditioner		1
12	SI No 123 of Annex 4	Evacuating & Refrigerant charging station comprising a) Rotary two stage vacuum pump and motor (With gas ballast & anti such back) Manifold with gauges valves and capable of pulling vacuum upto 50 microns of Hg and with provision of connecting to a mic b) Graduated charging cylinder with provisions for temperature correction and all necessary isolating valves. II. Evacuating & charging station as above but fitted with weighing scale (upto 2 Kg in lieu of (b) above and with accuracy of +/-1 gram for c		1
13	SI No 125 of Annex 4	Two stage rotary vacuum pump of capacity approx 60-100 1pm capable of evacuating to 50 microns of Hg and fitted with gas ballast anti suck valve and single phase motor.		1
14	SI No 136 of Annex 4	Window air conditioning	Capacity 3000 K.cal/hr.	1
15	SI No 140 of Annex 4	Ice Candy unit 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 model simulator.		1
16	SI No 141 of Annex 4	Air conditioning plant direct and indirect water chiller complete with all controls etc. Capacity 15000 K. cal/hr or working trainer model/simulator, Alternatively a packaged Air conditioner of similar		1
17	SI No 142 of Annex 4	Condensing unit with open type compressor air cooled evaporator condenser controls etc.	Capacity 3000 K. cal/hr	1
18	SI No 143 of Annex 4	Condensing unit with open type compressor evaporator condenser controls etc	Capacity 3000 K.cal/hr	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

## LOT – 25 Heat Treatment equipment

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 66 of Annex 6	Hardening furnace		1
2	Sl. No 67 of Annex 6	Tempering furnace		1
3	Sl. No 68 of Annex 6	Quenching tank	600 x 600 x 600 mm	1
4	Sl. No 28 of Annex 9	Electrode Heating Chamber		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

## Lot –26 - Refrigeration & Air Conditioning Equipment

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
1	Sl. No 157 of Annex 4	134A Refrigerant in cylinders with valves	FLORON Brand 134A gas (Tetra Fluoro Ethane) in 10kg company sealed cylinder. Dupont Brand 134A can 340 gms	Capacity - 10 Kg - 1 No. with test Certificate 340 gr. Disposable refrigerant Cans (Dupont / Floron) - 2 NO.s	2
2	Sl. No 192 of Annex 4	Accessories thormostatic expansion valve distributors, driers, (pencil solid core type etc.) accumulators, receivers, bellows type thermostat, HP Stat & LP Stat humidi stat, solenoid valves	DANFOSS make , Orifice No:3, R-22, Model: TX 2 Dryall / Denyo Make MB Make( for 134A gas)10grams,15grams, 25grams Annapurna Make Danfoss make KP5 Model Danfoss make KP1 Model Danfoss make KP15 Model Temptec thermo hygrometer clock	Thermostatic Expansion Valve with separating orifice (Removable Orifice) Danfoss Make; 5 Ton Capacity. Distributor(Refrigerant for 5 Ton) Drier : (Core type) for 5 Ton cap Accumulator:5 Ton capacity Liquid Reciever : 5 Ton cap Pencil type Drier; Bellow type Thermostat HP Cutout: Danfoss make LP Cutout : Danfoss make HP & LP Cutout (combined) with manual restart - Danfoss make Humidystat : Reputed make Solenoid Valve : 1/4" size	1
3	Sl. No 180 of Annex 4	Acid test kit		With acid resistant centrifugal pump 1/2 HP capacity	1
4	Sl. No 127 of Annex 4	Air Compressor two stage for oil less dry air with rust proof tank assemble heater and control	Max Pr. 10Kg/ sq.cm cap 45 Litre motor 1 HP		1
5	Sl. No 126 of Annex 4	Anemometer	Vane type	Reputed make	1
6	Sl. No 186 of Annex 4	Ball Valves service valves hand shut valves	1/4" to 7/8" Bava make hand shut off valve, service valve Threads protected	Reputed make	2

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
7	Sl. No 16 of Annex 4	Bending spring	External type for copper tube 3 to 6 mm. Dia		4
8	Sl. No 137 of Annex 4	Bottle Cooler	110 litre 1/6 HP	Voltas/Bluestar/Carrier make	1
9	Sl. No 28 of Annex 4	Box spanner	6.4 to 10 mm		2
10	Sl. No 183 of Annex 4	Brazing alloy rods for 1/4" to 7/8" tubes Cu to cu, Cu to steel, Cu to brass and appropriate fluxes	Copper Brazing rod Silver rod Brass rod	Cu - Cu: Cu alloy rod 2kg, 1/8" size CU - Steel: Silver 43% rod; 100 gr; 1.2mm dia Cu - Brass: Brass-Ni rod 1/4kg; 3mm dia	1
11	Sl. No 21 of Annex 4	Capillary plug gauge			2
12	Sl. No 175 of Annex 4	Circulating water pump (SMALL)	1/2 HP Capacity	Monoblock 1 Ph, 230V 50Hz, Reputed make	1
13	Sl. No 171 of Annex 4	Components of Car AC systems.	a) Wobble plate compressor with mounting brackets. b) Serpentine evaporator. c) Parallel flow condenser. d) Hoses, tubes, receive, expansion valve. e) Electrical components & wiring harness		1
14	Sl. No 37 of Annex 4	Compound gauge diameter 63 mm with recalibration set screw scale vacuum 76 mm pressure 15 Kg/Sq.cm		Airmaster make with SS Body (-)30 to 150 PSI - 2 NO.s 0-300 PSI 2nos (Glycerene/Oil filled 1 No. each)	4
15	Sl. No 188 of Annex 4	Compressor tester for small hermetic compressor	Electrical panel with voltmeter,ammeter,relays and capacitor, MCB etc.	Reputed make	1
16	Sl. No 3 of Annex 4	Condensing Unit with hermetic compressor	Cap.500 Kcal/hr		1
17	Sl. No 135 of Annex 4	Deep freezer	165 Litre (-)18 Deg C1/4 HP	Voltas/Bluestar make	1
18	Sl. No 129 of Annex 4	Descaling pump set	stainless steel impeller and housing complete with motor 1 HP and accessories.	Reputed make	1
19	Sl. No 124 of Annex 4	Dial thermometer remote controls armoured capillary dial 75 mm-50		Reputed make	2
20	Sl. No 165 of Annex 4	Dry N2 in cylinder with 2 stage regulator or commercial N2 in cylinder with drier unit and 2 stage regulator	Standard capacity - ISI standard	with Cylinder	1

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
21	Sl. No 193 of Annex 4	Electrical accessories current & potential relays start & run capacitors, PTC,s overload protector relays contractor.		1 Ph, 230V, 50Hz, AC - Reputed make	1
22	Sl. No 190 of Annex 4	Evaporator of direct cooled refrigerator with capillary heat exchanger	1 T capacity finned type evaporator		1
23	Sl. No 191 of Annex 4	Evaporator of Frost free refrigerator	200 -300litre capacity		1
24	Sl. No 173 of Annex 4	Fan coil unit with water valves	(2 &3 way)	3 T capacity	1
25	Sl. No 169 of Annex 4	Filter driers for CFC-12 & HFC-134 A for repairs retrofits	3/8" size	Dryall make	8
26	Sl. No 155 of Annex 4	Fin straightener / Fin comb			42
27	Sl. No 163 of Annex 4	Fire Extinguisher powder type	5kg		2
28	13 of Annex 4	Flaring tool set with Swedging	Single for tube 4.7 to 16 mm OD	Rothenberger Make	4
29	Sl. No 168 of Annex 4	Four way manifold with gauges		Rothenberger make	1
30	Sl. No 40 of Annex 4	Gas leak detector for halogen gas	Gas leak detector using halogen gas	Rothenberger make; 3gr/annum capacity	1
31	Sl. No 156 of Annex 4	HC refrigerant in cylinder/ disposable containers	Dupont 134a , 340 gms	Or Reputed Make	2
32	Sl. No 132 of Annex 4	Heating Kit with infra red bulb	150 watt capacity		1
33	Sl. No 189 of Annex 4	Hermetic compressor	1.5 Ton	Tecumseh make	1
34	Sl. No 185 of Annex 4	i) Hermetic compressor	1/8 to 1/2 HP(approx) for use in repair work of appliances for CFCs and HFCs	Tecumseh make	2
35	Sl. No 185 of Annex 4	ii) Hermetic compressor	For 134A	Tecumseh make	3
36	Sl. No 44 of Annex 4	L-Allen Key set size	1.5 to 6.4mm		4
37	Sl. No 41 of Annex 4	Lapping plate	250x200mm		2
38	Sl. No 153 of Annex 4	Micron vacuum gauge	Capable of reading upto 20 microns		2
39	Sl. No 162 of Annex 4	No frost refrigerator 300 litre capacity using HC refrigerant	Frost free refrigerator, 2 door, 1Ph, 230V, 50Hz, AC	Voltas/Bluestar/LG/Samsung/Godrej Make	1
40	Sl. No 23 of Annex 4	Piercing plier 6-18		Reputed make	2



Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
		mm & Piercing valves both with access fittings			
41	Sl. No 184 of Annex 4	Pilot tube & inclined tube manometer	500 m length, pilot tube, with fittings and inclined tube manometer, transparent acrylic scale.	from reputed mfrs.	1
42	Sl. No 22 of Annex 4	Pinch off plier / crimping plier tool	16 to 18 mm dia		2
43	Sl. No 19 of Annex 4	Pinch off tool	For copper tube 6 to 18 mm dia		4
44	Sl. No 80 of Annex 4	Pipe bending tool	lever type with degree indicator for tube OD 6.4 to 16 mm		1
45	Sl. No 17 of Annex 4	Pipe cutter	Miniature for copper tube 6 to 18 mm dia		4
46	Sl. No 18 of Annex 4	Pipe cutter	With built-in reamer and space cutter for copper tube 3 to 32 mm		1
47	Sl. No 178 of Annex 4	Pipe threading dies & pipe vice			1
48	Sl. No 182 of Annex 4	Pop rivet gun		Reputed make	1
49	Sl. No 164 of Annex 4	Portable Air-LPG brazing kit with 2 Kg LPG cylinder, torches, hoses, standard make. a) With straight flame. b) With Cyclone / swirl jet flame.	Portable Air-LPG brazing kit with 2 kg LPG cylinder, torches, hoses - Standard make. 1) with straight flame. 2) With cyclone swirl jet flame.	Rothenberger/Reputed make	1
50	Sl. No 131 of Annex 4	Pressure testing tank with lighting arrangement pressure gauge (0-35 Kg / sq.cm) double stage	Suitable Pressure testing tank of SS 304 Grade 18 Gauge having TIG welded joints with lighting arrangements.	Pressure gauge 0-35 kg/cm <sup>2</sup> - double stage	1
51	Sl. No 36 of Annex 4	Pressure gauge diameter 63 mm with recalibration set screw scale vacuum 76 mm pressure			4
52	Sl. No 42 of Annex 4	Punch hole for cutting gasket	4.7 to 16 mm dia		4
53	Sl. No 187 of Annex 4	Quick couplers process tube adaptor	1/4" to 7/8"		2
54	Sl. No 20 of Annex 4	Ratchet spanner	6.4 mm sg reversible		4
55	Sl. No 144 of Annex 4	Reciprocating compressor with provision of capacity control	Capacity 9000 K. cal/hr semi hermetic / open type.	Best indian	1

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
		etc, for demonstration			
56	Sl. No 158 of Annex 4	Recovery unit one each for CFC & R134 A refrigerants with recovering cylinders.	Consisting of 1/6 HP or required capacity compressor condenser with fan, oil separator, accumulator valve inlet and outlet for gas recovery, compound gauges and pressure gauges with LP, HP cut outs individual unit for CFC & HFC.	Rothenberger / Reputed make	1
57	Sl. No 195 of Annex 4	Recycling Unit		Suitable	1
58	Sl. No 181 of Annex 4	Refractometer	Portable with lens		1
59	Sl. No 121 of Annex 4	Refrigerant cylinder	Capacity 2.5 Kg		2
60	Sl. No 122 of Annex 4	Refrigerant cylinder	Capacity 30 Kg		2
61	Sl. No 161 of Annex 4	Refrigerator 170 litre using 134 A refrigerant	Single door refrigerator	Voltas/Bluestar/LG/Samsung/ Godrej Make	1
62	Sl. No 133 of Annex 4	Refrigerator compressor type	165 litre	Voltas/Bluestar/LG/Samsung/ Godrej Make	1
63	Sl. No 134 of Annex 4	Refrigerator compressor type	300 litres double door, double compressor system	Reputed make	1
64	Sl. No 159 of Annex 4	Reverse cycle AC/Heat pump	3000 K.cal/hr. Or 4500 K.cal/hr.		1
65	Sl. No 26 of Annex 4	Ring spanner set	4.7 mm to 16 mm		5
66	Sl. No 27 of Annex 4	Ring spanner set	19 mm to 31.8 mm		1
67	Sl. No 176 of Annex 4	Safety gloves, eye protection glasses			4
68	Sl. No 177 of Annex 4	Safety shoes			20
69	Sl. No 179 of Annex 4	Schraeder valve core removal tool			1
70	Sl. No 43 of Annex 4	Scissor gasket cutting stainless steel	length 25 mm		4
71	Sl. No 154 of Annex 4	Sensor thermometer	Digital		2
72	Sl. No 38 of Annex 4	Serviceman thermometer in metal case	-30 to + 30 Deg.C.		2
73	Sl. No 172 of Annex 4	Shell and tube Condenser	Small capacity. Reputed Make	1.5 Ton capacity with valves	1
74	Sl. No 174 of Annex 4	Shell and tube DX chillers (Small)	5 Ton capacity	Reputed make	1
75	Sl. No 39 of Annex 4	Sling psychrometer mounted on aluminum / plastic back scale -50 Deg. C to + 50 Deg.C			1

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
76	Sl. No 24 of Annex 4	Spanner double ended	4.7 mm to 16 mm		5
77	Sl. No 25 of Annex 4	Spanner double ended	19 mm to 31.8 mm		1
78	Sl. No 160 of Annex 4	Split type AC 4500 K.cal/hr	With indoor unit & outdoor units and electronic remote control	Voltas / Reputed make	1
79	Sl. No 130 of Annex 4	Spray outfit "V" twin with motor 1/2 HP delivery upto 120 Litre free air pressure upto 3 Kg/Sq.cm with spray gun and fitting			1
80	Sl. No 14 of Annex 4	Swedging tool	Punch type set of size, for tube 4.7 to 16 mm OD		4
81	Sl. No 15 of Annex 4	Swedging tool	Screw type, with adapter set of size for tube 4.7 to 16mm OD		1
82	Sl. No 45 of Annex 4	T-Allen key set size	5/32"L & 1/8"		4
83	Sl. No 166 of Annex 4	Trichlorethylene bottle	700 ml		1
84	Sl. No 167 of Annex 4	Two way manifold with gauges	Rothenberger make, Standard Manifold set.		1
85	Sl. No 34 of Annex 4	Valve key-T-Handle	4.7 & 6.4 mm Sq		4
86	Sl. No 194 of Annex 4	Visi Cooler	165 litres	Voltas/Bluestar/Carrier make	1
87	Sl. No 139 of Annex 4	water Cooler	Storage type 40 litres capacity	Voltas/Bluestar/Carrier make	1
88	Sl. No 138 of Annex 4	Water Cooler	Instantaneous type - 40 litres capacity.	Voltas/Bluestar/Carrier make	1
89	Sl. No 128 of Annex 4	Scraper triangular blade removable			2
90	170 of Annex 4	Sealed ex-proof components for use in HC appliances: Thermostats Sealed OLPS solid state PTC's door switches lamp holders			4

**End of Section IV**

**SECTION V – COMMERCIAL**

**PRICE SCHEDULE**

**LOT - 1 Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd. Power Hacksaw**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 5 of Annex 5	Pillar Drilling Machine	Cap. 25 mm	2		
2	Sl. No 99 of Annex 4	Pillar Drilling Machine	Cap. 25 mm	1		
3	Sl. No 45 of Annex 7	Pillar Drilling Machine	Cap. 25 mm	3		
4	Sl. No 11 of Annex 6	Pillar Drilling Machine	Cap. 25 mm	1		
5	Sl. No 36 of Annex 8	Pillar Drilling Machine	Cap. 20 mm	2		
6	Sl. No 13 of Annex 9	Pillar Drilling Machine	Cap. 13 mm	2		
7	Sl. No 6 of Annex 5	Pillar Drilling Machine	Cap. 13 mm	2		
8	Sl. No 44 of Annex 7	Pedestal Grinder	Wheel dia 200 mm	3		
9	Sl. No 9 of Annex 5	Pedestal Grinder	Wheel dia 200 mm	2		
10	Sl. No 12 of Annex 6	Pedestal Grinder	Wheel dia 200 mm	1		
11	Sl. No 9 of Annex 9	Pedestal Grinder	Wheel dia 200 mm	2		
12	Sl. No 100 of Annex 4	Pedestal Grinder	Wheel dia 200 mm	1		
13	Sl. No 37 of Annex 8	Pedestal Grinder	Wheel dia 200 mm	2		
14	Sl. No 8 of Annex 5	Hydraulic power hacksaw	Cutting capacity Round dia 200mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

1. The offer must be submitted as per above proforma. The Bidder may use his letterhead to submit his offer.
2. No erasures or alternations in the text of the offer are permitted.
3. Any correction made in offer shall be initialed by the Bidder.
4. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT – 2 Vertical Bandsaw machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 7 of Annex 5	Vertical Band saw machine	Dia 450 mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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4. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 3 Automatic Plastic Injection Moulding m/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 5 of Annex 6	Automatic Plastic Injection Moulding M/c	Locking force 180T, shot capacity 350 grams	1		
2	Sl. No 6 of Annex 6	Tooling with colour mixer, scrap grinder, Oven, cooling tower etc. for plastic injection moulding m/c		1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**



**LOT - 4 Electro Discharge M/c CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 2 of Annex 6	Electro Discharge M/c (EDM) CNC	Work Tank : 800 x 500 x 350 mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 5 Wire Cut EDM M/c CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 3 of Annex 6	Wire Cut EDM CNC	Max Work piece: 350 x 450 x 200 mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT – 6 Testing Machines**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 70 of Annex 6	Universal Testing Machine		1		
2	Sl. No 71 of Annex 6	Hardness Tester		1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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3. Any correction made in offer shall be initialed by the Bidder.
4. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 7 Hydraulic Press 100T**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 15 of Annex 6	Hydraulic Press	100T	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 8 Mechanical Press 10T & 100T**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 16 of Annex 6	Mechanical Press	10T	1		
2	Sl. No 17 of Annex 6	Mechanical Press	100T	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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**The prices quoted should be most competitive**

**LOT – 9 Circle Cutting Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 6 of Annex 9	Circle cutting m/c	Max dia 600 mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT – 10 Nibbling-Cropping- Punching Machine – All in One**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 4 of Annex 9	Nibbling – Cropping - Punching M/c	All in one machine	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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**The prices quoted should be most competitive**



**LOT – 11 Roll Bending Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 3 of Annex 9	Roll Bending M/c	Cap 3 x 1250 mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT – 12 Profile Projector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 51 of Annex 6	Profile projector		1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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**The prices quoted should be most competitive**

**LOT – 13 Tool Presetter with DRO & Projector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 14 of Annex 6	Tool pre setter with DRO & Projector	For machining centre	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT – 14 Hydraulic Press Brake & Mechanical Guillotine Shear**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 1 of Annex 9	Mechanical Guillotine Shear	Cap 3 x 2000 mm	1		
2	Sl. No 2 of Annex 9	Hydraulic Press Brake	Cap 3 x 2000 mm	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT – 15 Coil Winding Machine CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 165 of Annex 8	Coil Winding m/c	CNC	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

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4. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT – 16 Shop Furniture**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No. 75 of Annex 9	Arc Welding Table		1		
2	Sl. No. 76 of Annex 9	Gas Welding Table		1		
3	Sl. No. 77 of Annex 9	Gas cutting Table		1		
4	Sl. No. 73 of Annex 9	Gas Cylinder Trolley		2		
5	Sl. No. 102 of Annex 4	Gas Cylinder Truck two wheeler type		2		
6	Sl. No. 89 of Annex 6	Hand trolley		5		
7	Sl. No. 25 of Annex 1	Machine side cabinet		5		
8	Sl. No. 93 of Annex 5	Machine side cabinet		20		
9	Sl. No. 102 of Annex 6	Machine side cabinet		17		
10	Sl. No. 129 of Annex 8	Material Storage Cabinet		2		
11	Sl. No. 130 of Annex 8	Tool Storage Cabinet		2		
12	Sl. No. 131 of Annex 8	Equipment storage cabinet		2		
13	Sl. No. 24 of Annex 1	Personal locker	8 lockers	3		
14	Sl. No. 52 of Annex 2	Personal locker	8 lockers	3		
15	Sl. No. 31 of Annex 3	Personal locker	8 lockers	3		
16	Sl. No. 149 of Annex 4	Personal locker	8 lockers	2		
17	Sl. No. 92 of Annex 5	Personal locker	8 lockers	3		
18	Sl. No. 126 of Annex 6	Personal locker	8 lockers	3		
19	Sl. No. 145 of Annex 7	Personal locker	8 lockers	3		
20	Sl. No. 169 of Annex 8	Personal locker	8 lockers	3		
21	Sl. No. 83 of Annex 9	Personal locker	8 lockers	3		
22	Sl. No. 31 of Annex 3	Personal locker	8 lockers	3		
23	Sl. No. 23 of Annex 1	Slotted Angle Rack		4		
24	Sl. No. 49 of Annex 2	Slotted Angle Rack		4		
25	Sl. No. 38 of Annex 3	Slotted Angle Rack		6		
26	Sl. No. 196 of Annex 4	Slotted Angle Rack		2		
27	Sl. No. 91 of Annex 5	Slotted Angle Rack		4		
28	Sl. No. 100 of Annex 6	Slotted Angle Rack		4		
29	Sl. No. 152 of Annex 7	Slotted Angle Rack		4		
30	Sl. No. 176 of Annex 8	Slotted Angle Rack		6		
31	Sl. No. 85 of Annex 9	Slotted Angle Rack		4		
32	Sl. No. 94 of Annex 5	Tool Storage Cabinet		4		
33	Sl. No. 101 of Annex 6	Tool Storage Cabinet		8		
34	Sl. No. 90 of Annex 6	Storage Cabinet	For storage of drawings	2		
35	Sl. No. 17 of Annex 1	Workshop stools		20		
36	Sl. No. 12 of Annex 2	Workshop stools	Dia 12'	20		
37	Sl. No. 32 of Annex 3	Workshop stools		20		
38	Sl. No. 85 of Annex 5	Workshop stools		20		
39	Sl. No. 122 of Annex 6	Workshop stools		20		
40	Sl. No. 146 of Annex 7	Workshop stools		20		
41	Sl. No. 170 of Annex 8	Workshop stools		20		
42	Sl. No. 74 of Annex 9	Workshop stools		20		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**



**LOT – 17 Office Furniture**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No. 7 of Annex 1	Computer Table with chair set		22		
2	Sl. No. 20 of Annex 6	Computer Table with chair set		22		
3	Sl. No. 12 of Annex 10	Computer Furniture		22		
4	Sl. No. 20 of Annex 1	Cupboard - Major		4		
5	Sl. No. 46 of Annex 2	Cupboard - Major		5		
6	Sl. No. 35 of Annex 3	Cupboard - Major		4		
7	Sl. No. 147 of Annex 4	Cupboard - Major		2		
8	Sl. No. 88 of Annex 5	Cupboard - Major		4		
9	Sl. No. 120 of Annex 6	Cupboard - Major		4		
10	Sl. No. 149 of Annex 7	Cupboard - Major		2		
11	Sl. No. 173 of Annex 8	Cupboard - Major		4		
12	Sl. No. 81 of Annex 9	Cupboard - Major		4		
13	Sl. No. 21 of Annex 1	Cupboard - Minor		4		
14	Sl. No. 47 of Annex 2	Cupboard - Minor		5		
15	Sl. No. 36 of Annex 3	Cupboard - Minor		4		
16	Sl. No. 148 of Annex 4	Cupboard - Minor		2		
17	Sl. No. 89 of Annex 5	Cupboard - Minor		4		
18	Sl. No. 121 of Annex 6	Cupboard - Minor		4		
19	Sl. No. 150 of Annex 7	Cupboard - Minor		2		
20	Sl. No. 174 of Annex 8	Cupboard - Minor		4		
21	Sl. No. 82 of Annex 9	Cupboard - Minor		4		
22	Sl. No. 18 of Annex 1	Instructor Table		1		
23	Sl. No. 44 of Annex 2	Instructor Table		2		
24	Sl. No. 33 of Annex 3	Instructor Table		1		
25	Sl. No. 151 of Annex 4	Instructor Table		1		
26	Sl. No. 86 of Annex 5	Instructor Table		1		
27	Sl. No. 123 of Annex 6	Instructor Table		1		
28	Sl. No. 147 of Annex 7	Instructor Table		1		
29	Sl. No. 171 of Annex 8	Instructor Table		1		
30	Sl. No. 79 of Annex 9	Instructor Table		1		
31	Sl. No. 19 of Annex 1	Instructor Chair		2		
32	Sl. No. 45 of Annex 2	Instructor Chair		1		
33	Sl. No. 34 of Annex 3	Instructor Chair		1		
34	Sl. No. 152 of Annex 4	Instructor Chair		1		
35	Sl. No. 87 of Annex 5	Instructor Chair		1		
36	Sl. No. 124 of Annex 6	Instructor Chair		1		
37	Sl. No. 148 of Annex 7	Instructor Chair		1		
38	Sl. No. 172 of Annex 8	Instructor Chair		1		
39	Sl. No. 80 of Annex 9	Instructor Chair		1		
40	Sl. No. 11 of Annex 2	Cutting Table	6' x 6'	5		
41	Sl. No. 14 of Annex 2	Ironing Table	6' x 6'	2		
42	Sl. No. 15 of Annex 2	Lecture Chairs		20		
43	Sl. No. 16 of Annex 2	Visitor Chair		6		
44	Sl. No. 22 of Annex 1	White Board	6' x 4' (With pen set & Duster)	1		
45	Sl. No. 43 of Annex 2	White Board	6' x 4' (With pen set & Duster)	1		

46	Sl. No. 90 of Annex 5	White Board	6' x 4' (With pen set & Duster)	1	
47	Sl. No. 125 of Annex 6	White Board	6' x 4' (With pen set & Duster)	1	
48	Sl. No. 151 of Annex 7	White Board	6' x 4' (With pen set & Duster)	1	
49	Sl. No. 84 of Annex 9	White Board	6' x 4' (With pen set & Duster)	1	
50	Sl. No. 93 of Annex 6	Inspection Table	1.5 x 1 x 0.75 m with light	2	
51	Sl. No. 27 of Annex 1	Plastic bin Stand		2	
52	Sl. No. 40 of Annex 3	Plastic bin Stand		2	
53	Sl. No. 96 of Annex 5	Plastic bin Stand		4	
54	Sl. No. 154 of Annex 7	Plastic bin Stand		4	
55	Sl. No. 178 of Annex 8	Plastic bin Stand		2	
56	Sl. No. 26 of Annex 1	Plastic bin (Set)	3 sizes	140	
57	Sl. No. 39 of Annex 3	Plastic bin (Set)	3 sizes	140	
58	Sl. No. 95 of Annex 5	Plastic bin (Set)	3 sizes	280	
59	Sl. No. 153 of Annex 7	Plastic bin (Set)	3 sizes	280	
60	Sl. No. 177 of Annex 8	Plastic bin (Set)	3 sizes	140	
61	Sl. No. 99 of Annex 6	Plastic bin (Set)	3 sizes	70	
62	Sl. No. 51 of Annex 2	Plastic bins	Assorted sizes	1 lot	
63	Sl. No. 50 of Annex 2	Shelving Unit		2	
64	Sl. No. 28 of Annex 1	Scrap bins	120 litres	2	
65	Sl. No. 48 of Annex 2	Scrap bins	120 litres	2	
66	Sl. No. 98 of Annex 5	Scrap bins	120 litres	4	
67	Sl. No. 88 of Annex 9	Scrap bins	120 litres	4	
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>					
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>					
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>					

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Dated:.....

Signature and seal of Authorized Signatory

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**LOT – 18 Surface Table, Angle Plates**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 53 of Annex 6	Surface Table with stand	1000 x 1000 Granite make	2		
2	Sl. No 59 of Annex 6	Surface Table with stand	1000 x 1000 C I make	2		
3	Sl. No 53 of Annex 5	Surface Table with stand	1000 x 1000 C I make	1		
4	Sl. No 76 of Annex 7	Marking out Table with stand	1000 x 1000 C I make	2		
5	Sl. No 65 of Annex 9	Surface Table with stand	1000 x 1000 C I make	1		
6	Sl. No 77 of Annex 4	Surface Table with stand	600 x 450 mm C I make	1		
7	Sl. No 78 of Annex 4	Cast Iron Angle plate with T slots	250 x 200 x 150 mm	2		
8	Sl. No 40 of Annex 5	Cast Iron Angle plate with T slots	250 x 200 x 150 mm	2		
9	Sl. No 88 of Annex 6	Cast Iron Angle plate with T slots	250 x 200 x 150 mm	2		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

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**LOT – 19 Misc. Measuring Instruments**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 58 of Annex 5	Feeler Gauge Rolls (mts)	0.03mm & 0.05 mm	6		
2	Sl. No 48 of Annex 6	Feeler Gauge Rolls (mts)	0.03mm & 0.05 mm	6		
3	Sl. No 119 of Annex 4	Feeler gauge	0.05 mm-1 mm	1		
4	Sl. No 57 of Annex 6	Moarse Taper gauge - Set of Plug and ring type	MT1, MT2, MT3	2		
5	Sl. No 71 of Annex 5	Morse Taper Gauge- Plug and Ring type	MT1, MT2,MT3	1		
6	Sl. No 61 of Annex 5	Plug Gauge Set	Inch and Metric assorted	1 lot		
7	Sl. No 50 of Annex 6	Plug gauge-set	Inch and Metric Assorted sizes	1 lot		
8	Sl. No 64 of Annex 9	Protractor & combination square set		2		
9	Sl. No 52 of Annex 6	Radius gauge- set	1-7 mm & 7.5 – 15 mm	1		
10	Sl. No 62 of Annex 5	Radius Gauge Sets	1-7 mm & 7.5 – 15 mm	1		
11	Sl. No 62 of Annex 9	Radius gauges	0.4 - 13 mm range	6		
12	Sl. No 60 of Annex 5	Ring Gauge Set	Inch and Metric assorted	1 lot		
13	Sl. No 97 of Annex 5	Sine Bar	150mm	1		
14	Sl. No 55 of Annex 6	Sine bar	150 mm	1		
15	Sl. No 59 of Annex 5	Thread Pitch Gauge	0.5mm -6mm metric 60 deg	2		
16	Sl. No 64 of Annex 5	Thread Plug & Ring Gauge Set		1 lot		
17	Sl. No 49 of Annex 6	Thread Plug & Ring Gauge Set		1 lot		
18	Sl. No 64 of Annex 8	Wire Gauge		8		
19	Sl. No 63 of Annex 9	Wire Gauge	Rectangular	6		
20	Sl. No 120 of Annex 4	Wire Gauge metric and with worth		1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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**The prices quoted should be most competitive**

**LOT – 20 Work Benches**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 14 of Annex 1	Work benches	5' x 3' twin station with vice	8		
2	Sl. No 146 of Annex 4	Work benches	5' x 3' twin station with vice	4		
3	Sl. No 10 of Annex 5	Work benches	5' x 3' twin station with vice	8		
4	Sl. No 91 of Annex 6	Work benches	5' x 3' twin station with vice	8		
5	Sl. No 57 of Annex 7	Work benches	5' x 3' twin station with vice	4		
6	Sl. No 30 of Annex 9	Work benches	5' x 3' twin station with vice	6		
7	Sl. No 25 of Annex 8	Work benches	Electrical Twin station	6		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT – 21 Pallet Roll, Pallet Trucks, Pallet Crane**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 197 of Annex 4	Pallet Roll	2500 kgs	2		
2	Sl. No 99 of Annex 5	Pallet Roll	2500 kgs	2		
3	Sl. No 94 of Annex 6	Pallet Roll	2500 kgs	2		
4	Sl. No 95 of Annex 6	Pallet Truck	2500 kgs	1		
5	Sl. No 51 of Annex 7	Pallet Roll	2500 kgs	2		
6	Sl. No 27 of Annex 9	Pallet Roll	2500 kgs	1		
7	Sl. No 100 of Annex 5	Pallet Crane	3000 kgs	1		
8	Sl. No 96 of Annex 6	Pallet Crane	3000 kgs	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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**The prices quoted should be most competitive**



**LOT - 22 Mechatronics Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 1 of Annex 1 Mechatronics	PLC Trainer Kit	PLC Trainer Kit including Static & Dynamic Modules	1		
2	Sl. No 2 of Annex 1 Mechatronics	Digital Sensor Module		1		
3	Sl. No 3 of Annex 1 Mechatronics	Analog Sensor Module		1		
4	Sl. No 4 of Annex 1 Mechatronics	Dynamic Module	With Sensor Module and Relay Module	1		
5	Sl. No 5 of Annex 1 Mechatronics	Linear Transfer System	Complete workstation mounted on a aluminum profile plate with operating console, consisting of: Belt conveyor, Linear pick & place unit, Horizontal transfer unit, Transfer Module (Rotary Pick & Place Unit), 6 Station Rotary Carousel Table, Drilling module.	1		
6	Sl. No 6 of Annex 1 Mechatronics	Six Axis Robot	Articulated ROBOT - PC Controlled 6 Axis with pedestal base, 2.5 Kgs Payload capacity, Pneumatic Gripper, Robot Controller, Windows 98 based Robot Controlling software.	1		

7	Sl. No 7 of Annex 1 Mechatronics	Robot Application Experimental Kit	With experiment table, Pneumatic chuck, Pneumatic vice, Pick & Place-Vertical stacking & Horizontal Palletizing, assembly & dismantling, Gluing experiment kit, Testing bank of push button switches, Painting kit	1		
8	Sl. No 8 of Annex 1 Mechatronics	Integration of ROBOT with Automation	4 Axis Assembly Robotic ARM with Pallet & Robot Controller Software, Weighing & Palletizing System With integration of Robot with Complete Workstation Mounted on a Aluminium Profile Plate, Belt Conveyor, Rotary Pick & Place Manipulator, Weighing Module and PLC	1		
9	Sl. No 10 of Annex 1 Mechatronics	Mechatronics Software	For Basic Simulation	1 Lot		
			FOR Advanced simulation			
			Robotic Simulation			
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- a. Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- b. Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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4. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 23 Apparel Manufacturing Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	SI No. 1 of Annex 2	Lock Stitch Machine	Motorised	20		
2	SI No. 2 of Annex 2	Lock Stitch machine with UBT	Motorised	1		
3	SI No. 3 of Annex 2	Button Hole Stitching Machine	Electronic	1		
4	SI No. 4 of Annex 2	Button Stitching machine	Single needle lockstitch machine	1		
5	SI No. 5 of Annex 2	Front Flacket Machine	Motorised	1		
6	SI No. 6 of Annex 2	Cutting Machine	Motorised	1		
7	SI No. 7 of Annex 2	Over Locking machine	2 needle 5 thread overlock machine	1		
8	SI No. 8 of Annex 2	Over Locking machine	1 needle 3 thread overlock machine	1		
9	SI No. 9 of Annex 2	Zig Zag Stitching machine	1 needle lock stitch machine	1		
10	SI No. 10 of Annex 2	Iron Box	Vacuum based with steam generator	1		
11	SI No. 13 of Annex 2	Work Aids	Basic yoke attach folder, hemming folder, placket folder etc.	1 Lot		
12	SI No. 17 of Annex 2	Linen Tape	2 meters	20		
13	SI No. 18 of Annex 2	Scissors	Assorted size	20 Sets		
14	SI No. 19 of Annex 2	Needles	Assorted size	20 Sets		
15	SI No. 20 of Annex 2	Fabric Cutting Aids	Assorted size	20 Sets		
16	SI No. 21 of Annex 2	Buttons/Hooks/Pins etc.	Assorted size	20 Sets		
17	SI No. 23 of Annex 2	Scissors	Brass handle 25 cms	20		
18	SI No. 24 of Annex 2	Tailor's Square	Material: Wooden / Plastic Size: 300 mm x 600 mm	20		
19	SI No. 25 of Annex 2	Leg Shaper	Material: Wooden / Plastic Size: 24"	20		
20	SI No. 26 of Annex 2	Cloth Brush	Wooden handle 3" bristles 5"	20		
21	SI No. 27 of Annex 2	Tracing Wheel	Wooden handle with iron wheel 3"	1		

22	SI No. 28 of Annex 2	Measuring Tape	Material: Rubberised Linen Size: 150 cms	20		
23	SI No. 29 of Annex 2	Seam Ripper	Size: 3" Plasti handle	20		
24	SI No. 30 of Annex 2	Timble	Size: 1.5 cms open type steel	20		
25	SI No. 31 of Annex 2	Tailor's card triangle	Size: 60 cm length (Card scale)	20		
26	SI No. 32 of Annex 2	Tailors art curve	Material: Wooden / Plastic Size: 30 x 60 cm	20		
27	SI No. 33 of Annex 2	French Curve	Material: Plastic Size: 6" to 8" set of 3	20		
28	SI No. 34 of Annex 2	Button Hole Scissors	Material: Steel Size: 4"	5		
29	SI No. 35 of Annex 2	Pinking Scissors	Material: Steel Size: 8"	5		
30	SI No. 36 of Annex 2	Left hand scissors	Material: Steel Size: 25 cm	4		
31	SI No. 37 of Annex 2	Shear	Brass handle 10" to 12", Size: 30 cm	2		
32	SI No. 38 of Annex 2	Gum tape dispenser	For office use	1		
33	SI No. 39 of Annex 2	Rubber Mat	Size: 300 x 1250 x 25 mm	4		
34	SI No. 40 of Annex 2	Garment Sprayer	Material: Plastic, Size: 6"	4		
35	SI No. 41 of Annex 2	Blanket of size 5" x 8" for padding as pressing table	Size: 5' x 8'	4		
36	SI No. 42 of Annex 2	Milton cloth double width	Size: 2 meters Colour: Brown / Green	8		
37	SI No. 53 of Annex 2	Consumable material	Stainless steel mesh left hand glove	10 nos		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT - 24 Refrigeration & Air Conditioning Trainers**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	SI No 1 of Annex 4	Refrigeration Test Rig	Trainer	1		
2	SI No 2 of Annex 4	Walking Cooler	Capacity 3000Kcal/hr	1		
3	SI No 4 of Annex 4	Cut section model: Open, Semi-sealed and sealed compressor	Set of 3	1		
4	SI No 5 of Annex 4	Heat Exchanger Shell & Tube Type		1		
5	SI No 6 of Annex 4	Heat Exchanger tube in tube type		1		
6	SI No 7 of Annex 4	Refrigeration tutor		1		
7	SI No 8 of Annex 4	Package air conditioner		1		
8	SI No 9 of Annex 4	Automobile Air Conditioner		1		
9	SI No 10 of Annex 4	Split type Air Conditioner		1		
10	SI No 11 of Annex 4	Air conditioner		1		
11	SI No 12 of Annex 4	Room Air Conditioner		1		
12	SI No 123 of Annex 4	Evacuating & Refrigerant charging station comprising a) Rotary two stage vacuum pump and motor (With gas ballast & anti such back) Manifold with gauges valves and capable of pulling vacuum upto 50 microns of Hg and with provision of connecting to a mic b) Graduated charging cylinder with provisions for temperature correction and all necessary isolating valves. II. Evacuating & charging station as above but fitted with weighing scale (upto 2 Kg in lieu of (b) above and with accuracy of +/-1 gram for c		1		
13	SI No 125 of Annex 4	Two stage rotary vacuum pump of capacity approx 60-100 1pm capable of evacuating to 50 microns of Hg and fitted with gas ballast anti suck valve and single phase motor.		1		
14	SI No 136 of Annex 4	Window air conditioning	Capacity 3000 K.cal/hr.	1		
15	SI No 140 of Annex 4	Ice Candy unit 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 model simulator.		1		
16	SI No 141 of Annex 4	Air conditioning plant direct and indirect water chiller complete with all controls etc. Capacity 15000 K. cal/hr or working trainer model/simulator, Alternatively a packaged Air conditioner of similar		1		
17	SI No 142 of Annex 4	Condensing unit with open type compressor air cooled evaporator condenser controls etc.	Capacity 3000 K. cal/hr	1		



18	SI No 143 of Annex 4	Condensing unit with open type compressor evaporator condenser controls etc	Capacity 3000 K.cal/hr	1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

SI No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**The prices quoted should be most competitive**

**LOT - 25 Heat Treatment Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 66 of Encl 6	Hardening furnace		1		
2	Sl. No 67 of Encl 6	Tempering furnace		1		
3	Sl. No 68 of Encl 6	Quenching tank	600 x 600 x 600 mm	1		
4	Sl. No 28 of Encl 9	Electrode Heating Chamber		1		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>						
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>						
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>						
<b>Cost towards Installation, commissioning and training the customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)</b>						
<b>*Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required	Cost per man day (In Rs.)

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

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Dated:.....

Signature and seal of Authorized Signatory

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- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 26 Ref & A/c equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.							
Sl. No	Annex Ref.	ITEM		Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 157 of Annex 4	134A Refrigerant in cylinders with valves	FLORON Brand 134A gas (Tetra Flouro Ethane) in 10kg company sealed cylinder. Dupont Brand 134A can 340 gms	Capacity - 10 Kg - 1 No. with test Certificate 340 gr. Disposable refrigerant Cans (Dupont / Floron) - 2 NO.s	2		
2	Sl. No 192 of Annex 4	Accessories thormostatic expansion valve distributors, driers, (pencil solid core type etc.) accumulator s, receivers, bellows type thermostat, HP Stat & LP Stat humidi stat, solenoid valves	DANFOSS make , Orifice No:3, R-22, Model: TX 2 Dryall / Denyo Make MB Make( for 134A gas)10grams, 15grams, 25grams Annapurna Make Danfoss make KP5 Model Danfoss make KP1 Model Danfoss make KP15 Model Temptec thermo hygrometer clock	Thermostatic Expansion Valve with separating orifice (Removable Orifice) Danfosss Make; 5 Ton Capacity. Distributor(Refrigi rant for 5 Ton) Drier : (Core type) for 5 Ton cap Accumulator:5 Ton capacity Liquid Reciever : 5 Ton cap Pencil type Drier; Bellow type Thermostat HP Cutout: Danfoss make LP Cutout : Danfoss make HP & LP Cutout (combined) with manual restart - Danfoss make Humidystat : Reputed make Solenoid Valve : 1/4" size	1		
3	Sl. No 180 of Annex 4	Acid test kit		With acid resistant centrifugal pump 1/2 HP capacity	1		

4	Sl. No 127 of Annex 4	Air Compressor two stage for oil less dry air with rust proof tank assemble heater and control	Max Pr. 10Kg/ sq.cm cap 45 Litre motor 1 HP		1		
5	Sl. No 126 of Annex 4	Anemometer	Vane type	Reputed make	1		
6	Sl. No 186 of Annex 4	Ball Valves service valves hand shut valves	1/4" to 7/8" Bava make hand shut off valve, service valve Threads protected	Reputed make	2		
7	Sl. No 16 of Annex 4	Bending spring	External type for copper tube 3 to 6 mm. Dia		4		
8	Sl. No 137 of Annex 4	Bottle Cooler	110 litre 1/6 HP	Voltas/Bluestar/C arrier make	1		
9	Sl. No 28 of Annex 4	Box spanner	6.4 to 10 mm		2		
10	Sl. No 183 of Annex 4	Brazing alloy rods for 1/4" to 7/8" tubes Cu to cu, Cu to steel, Cu to brass and appropriate fluxes	Copper Brazing rod Silver rod Brass rod	Cu - Cu: Cu alloy rod 2kg, 1/8" size CU – Steel: Silver 43% rod; 100 gr; 1.2mm dia Cu - Brass: Brass-Ni rod 1/4kg; 3mm dia	1		
11	Sl. No 21 of Annex 4	Capillary plug gauge			2		
12	Sl. No 175 of Annex 4	Circulating water pump (SMALL)	1/2 HP Capacity	Monoblock 1 Ph, 230V 50Hz, Reputed make	1		
13	Sl. No 171 of Annex 4	Components of Car AC systems.	a) Wobble plate compressor with mounting brackets. b) Serpentine evaporator. c) Parallel flow condenser. d) Hoses, tubes, receive, expansion valve. e) Electrical components & wiring harness		1		

14	Sl. No 37 of Annex 4	Compound gauge diameter 63 mm with recalibration set screw scale vacuum 76 mm pressure 15 Kg/Sq.cm		Airmaster make with SS Body (-)30 to 150 PSI - 2 NO.s 0-300 PSI 2nos (Glycerene/Oil filled 1 No. each)	4		
15	Sl. No 188 of Annex 4	Compressor tester for small hermetic compressor	Electrical panel with voltmeter, ammeter, relays and capacitor, MCB etc.	Reputed make	1		
16	Sl. No 3 of Annex 4	Condensing Unit with hermetic compressor	Cap.500 Kcal/hr		1		
17	Sl. No 135 of Annex 4	Deep freezer	165 Litre (-)18 Deg C1/4 HP	Voltas/Bluestar make	1		
18	Sl. No 129 of Annex 4	Descaling pump set	stainless steel impeller and housing complete with motor 1 HP and accessories.	Reputed make	1		
19	Sl. No 124 of Annex 4	Dial thermometer remote controls armoured capillary dial 75 mm-50		Reputed make	2		
20	Sl. No 165 of Annex 4	Dry N2 in cylinder with 2 stage regulator or commercial N2 in cylinder with drier unit and 2 stage regulator	Standard capacity - ISI standard	with Cylinder	1		

21	Sl. No 193 of Annex 4	Electrical accessories current & potential relays start & run capacitors, PTC,s overload protector relays contractor.		1 Ph, 230V, 50Hz, AC - Reputed make	1		
22	Sl. No 190 of Annex 4	Evaporator of direct cooled refrigerator with capillary heat exchanger	1 T capacity finned type evaporator		1		
23	Sl. No 191 of Annex 4	Evaporator of Frost free refrigerator	200 -300litre capacity		1		
24	Sl. No 173 of Annex 4	Fan coil unit with water valves	(2 &3 way)	3 T capacity	1		
25	Sl. No 169 of Annex 4	Filter driers for CFC-12 & HFC-134 A for repairs retrofits	3/8" size	Dryall make	8		
26	Sl. No 155 of Annex 4	Fin straightener / Fin comb			42		
27	Sl. No 163 of Annex 4	Fire Extinguisher powder type	5kg		2		
28	13 of Annex 4	Flaring tool set with Swedging	Single for tube 4.7 to 16 mm OD	Rothenberger Make	4		
29	Sl. No 168 of Annex 4	Four way manifold with gauges		Rothenberger make	1		
30	Sl. No 40 of Annex 4	Gas leak detector for halogen gas	Gas leak detector using halogen gas	Rothenberger make; 3gr/annum capacity	1		
31	Sl. No 156 of Annex 4	HC refrigerant in cylinder/ disposable containers	Dupont 134a , 340 gms	Or Reputed Make	2		
32	Sl. No 132 of Annex 4	Heating Kit with infra red bulb	150 watt capacity		1		
33	Sl. No 189 of Annex 4	Hermetic compressor	1.5 Ton	Tecumseh make	1		

34	Sl. No 185 of Annex 4	i) Hermetic compressor	1/8 to 1/2 HP(approx) for use in repair work of appliances for CFCs and HFCs	Tecumseh make	2		
35	Sl. No 185 of Annex 4	ii) Hermetic compressor	For 134A	Tecumseh make	3		
36	Sl. No 44 of Annex 4	L-Allen Key set size	1.5 to 6.4mm		4		
37	Sl. No 41 of Annex 4	Lapping plate	250x200mm		2		
38	Sl. No 153 of Annex 4	Micron vacuum gauge	Capable of reading upto 20 microns		2		
39	Sl. No 162 of Annex 4	No frost refrigerator 300 litre capacity using HC refrigerant	Frost free refrigerator, 2 door, 1Ph, 230V, 50Hz, AC	Voltas/Bluestar/LG/Samsung/Godrej Make	1		
40	Sl. No 23 of Annex 4	Piercing plier 6-18 mm & Piercing valves both with access fittings		Reputed make	2		
41	Sl. No 184 of Annex 4	Pilot tube & inclined tube manometer	500 m length, pilot tube, with fittings and inclined tube manometer, transparent acrylic scale.	from reputed mfrs.	1		
42	Sl. No 22 of Annex 4	Pinch off plier / crimping plier tool	16 to 18 mm dia		2		
43	Sl. No 19 of Annex 4	Pinch off tool	For copper tube 6 to 18 mm dia		4		
44	Sl. No 80 of Annex 4	Pipe bending tool	lever type with degree indicator for tube OD 6.4 to 16 mm		1		
45	Sl. No 17 of Annex 4	Pipe cutter	Miniature for copper tube 6 to 18 mm dia		4		
46	Sl. No 18 of Annex 4	Pipe cutter	With built-in reamer and space cutter for copper tube 3 to 32 mm		1		

47	Sl. No 178 of Annex 4	Pipe threading dies & pipe vice			1		
48	Sl. No 182 of Annex 4	Pop rivet gun		Reputed make	1		
49	Sl. No 164 of Annex 4	Portable Air-LPG brazing kit with 2 Kg LPG cylinder, torches, hoses, standard make. a) With straight flame. b) With Cyclone / swirl jet flame.	Portable Air-LPG brazing kit with 2 kg LPG cylinder, torches, hoses - Standad make. 1) with straight flame. 2) With cyclone swirl jet flame.	Rothenberger/Reputed make	1		
50	Sl. No 131 of Annex 4	Pressure testing tank with lighting arrangement pressure gauge (0-35 Kg / sq.cm) double stage	Suitable Pressure testing tank of SS 304 Grade 18 Gauge having TIG welded joints with lighting arrangements.	Pressure gauge 0-35 kg/cm <sup>2</sup> - double stage	1		
51	Sl. No 36 of Annex 4	Pressure gauge diameter 63 mm with recalibration set screw scale vacuum 76 mm pressure			1		
52	Sl. No 42 of Annex 4	Punch hole for cutting gasket	4.7 to 16 mm dia		4		
53	Sl. No 187 of Annex 4	Quick couplers process tube adaptor	1/4" to 7/8"		2		
54	Sl. No 20 of Annex 4	Ratchet spanner	6.4 mm sg reversible		4		



55	Sl. No 144 of Annex 4	Reciprocating compressor with provision of capacity control etc, for demonstration	Capacity 9000 K. cal/hr semi hermetic / open type.	Best indian	1		
56	Sl. No 158 of Annex 4	Recovery unit one each for CFC & R134 A refrigerants with recovering cylinders.	Consisting of 1/6 HP or required capacity compressor condensor with fan, oil separator, accumulator valve inlet and outlet for gas recovery, compound gauges and pressure gauges with LP, HP cut outs individual unit for CFC & HFC.	Rothenberger / Reputed make	1		
57	Sl. No 195 of Annex 4	Recycling Unit		Suitable	1		
58	Sl. No 181 of Annex 4	Refractometer	Portable with lens		1		
59	Sl. No 121 of Annex 4	Refrigerant cylinder	Capacity 2.5 Kg		2		
60	Sl. No 122 of Annex 4	Refrigerant cylinder	Capacity 30 Kg		2		
61	Sl. No 161 of Annex 4	Refrigerator 170 litre using 134 A refrigerant	Single door refrigerator	Voltas/Bluestar/LG/Samsung/Godrej Make	1		
62	Sl. No 133 of Annex 4	Refrigerator compressor type	165 litre	Voltas/Bluestar/LG/Samsung/Godrej Make	1		
63	Sl. No 134 of Annex 4	Refrigerator compressor type	300 litres double door, double compressor system	Reputed make	1		
64	Sl. No 159 of Annex 4	Reverse cycle AC/Heat pump	3000 K.cal/hr. Or 4500 K.cal/hr.		1		
65	Sl. No 26 of Annex 4	Ring spanner set	4.7 mm to 16 mm		5		

66	Sl. No 27 of Annex 4	Ring spanner set	19 mm to 31.8 mm		1		
67	Sl. No 176 of Annex 4	Safety gloves, eye protection glasses			4		
68	Sl. No 177 of Annex 4	Safety shoes			20		
69	Sl. No 179 of Annex 4	Schraeder valve core removal tool			1		
70	Sl. No 43 of Annex 4	Scissor gasket cutting stainless steel	length 25 mm		4		
71	Sl. No 154 of Annex 4	Sensor thermometer	Digital		2		
72	Sl. No 38 of Annex 4	Serviceman thermometer in metal case	-30 to + 30 Deg.C.		2		
73	Sl. No 172 of Annex 4	Shell and tube Condenser	Small capacity. Reputed Make	1.5 Ton capacity with valves	1		
74	Sl. No 174 of Annex 4	Shell and tube DX chillers (Small)	5 Ton capacity	Reputed make	1		
75	Sl. No 39 of Annex 4	Sling psychrometer mounted on aluminum / plastic back scale -50 Deg. C to + 50 Deg.C			1		
76	Sl. No 24 of Annex 4	Spanner double ended	4.7 mm to 16 mm		5		
77	Sl. No 25 of Annex 4	Spanner double ended	19 mm to 31.8 mm		1		
78	Sl. No 160 of Annex 4	Split type AC 4500 K.cal/hr	With indoor unit & outdoor units and electronic remote control	Voltas / Reputed make	1		

79	Sl. No 130 of Annex 4	Spray outfit "V" twin with motor 1/2 HP delivery upto 120 Litre free air pressure upto 3 Kg/Sq.cm with spray gun and fitting			1		
80	Sl. No 14 of Annex 4	Swedging tool	Punch type set of size, for tube 4.7 to 16 mm OD		4		
81	Sl. No 15 of Annex 4	Swedging tool	Screw type, with adapter set of size for tube 4.7 to 16mm OD		1		
82	Sl. No 45 of Annex 4	T-Allen key set size	5/32"L & 1/8"		4		
83	Sl. No 166 of Annex 4	Trichlorethylene bottle	700 ml		1		
84	Sl. No 167 of Annex 4	Two way manifold with gauges	Rothenberger make, Standard Manifold set.		1		
85	Sl. No 34 of Annex 4	Valve key-T-Handle	4.7 & 6.4 mm Sq		4		
86	Sl. No 194 of Annex 4	Visi Cooler	165 litres	Voltas/Bluestar/Carrier make	1		
87	Sl. No 139 of Annex 4	water Cooler	Storage type 40 litres capacity	Voltas/Bluestar/Carrier make	1		
88	Sl. No 138 of Annex 4	Water Cooler	Instantaneous type - 40 litres capacity.	Voltas/Bluestar/Carrier make	1		
89	Sl. No 128 of Annex 4	Scraper triangular blade removable			2		
90	170 of Annex 4	Sealed ex-proof components for use in HC appliances: Thermostats Sealed OLPS solid state PTC's door switches lamp holders			4		
<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing</b>							
<b>Cost of inspection, trails &amp; extended international warranty @ 6% + applicable GST of FOR Chennai port price</b>							
<b>Total F.O.R Chennai Port Price in Indian Rupees</b>							

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

1. The offer must be submitted as per above proforma. The Bidder may use his letterhead to submit his offer.
2. No erasures or alternations in the text of the offer are permitted.
3. Any correction made in offer shall be initialed by the Bidder.
4. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**End of Section V**





**PROFORMA FOR PERFORMANCE BANK GUARANTEE**

THE JOINT GENERAL MANAGER, PROJECTS  
HMT (INTERNATIONAL) LTD.  
HMT BHAVAN  
59 BELLARY ROAD  
BANGALORE – 560 032

DEAR SIR,

THIS DEED OF GUARANTEE EXECUTED BY ..... BANK, (NAME AND ADDRESS OF THE BANK) (HEREINAFTER REFERRED TO AS BANK) IN FAVOUR OF HMT (INTERNATIONAL) LTD. (HEREINAFTER REFERRED TO BENEFICIARY) NOT EXCEEDING RS..... (RUPEES ..... ONLY) AT THE REQUEST OF M/S. .... (HEREINAFTER REFERRED TO AS SUPPLIER).

WHEREAS THE SUPPLIER HAS APPROACHED BANK TO ISSUE BANK GUARANTEE IN YOUR FAVOUR FOR A SUM OF RS. .... (RUPEES ..... ONLY). WHEREAS THE SUPPLIER HAS RECEIVED PURCHASE ORDER NO. .... DATED ..... FOR RS ..... FOR PROVIDING SERVICES AS STATED IN THE PURCHASE ORDER. WHEREAS THE SUPPLIER HAS TO SUBMIT PERFORMANCE GUARANTEE FOR TEN PERCENT OF THE VALUE OF SUPPLIES PORTION OF RS.....AS STATED IN THE SAID PURCHASE ORDER.

WE HEREBY CONFIRM AND STATE THAT WE AS GUARANTORS SHALL BE RESPONSIBLE TO YOU ON BEHALF OF THE “SUPPLIER” FOR A TOTAL SUM OF RS..... (RUPEES ..... ONLY) IN CASE OF VIOLATION OF ANY OF THE TERMS/CONDITIONS OF THE SAID PURCHASE ORDER.

WE UNDERTAKE TO PAY YOU UPON FIRST WRITTEN DEMAND DECLARING THE “SUPPLIER” TO BE IN VIOLATION/BREACH OR CONTRAVENTION OF ANY OF THE TERMS AND CONDITIONS, WITHOUT DEMUR OR ARGUMENT OR COURT ORDER OR RESOLUTION WITHIN THE VALIDITY OF THIS GUARANTEE, A SUM OF RS..... (RUPEES ..... ONLY) AS AFOREMENTIONED WITHOUT YOUR HAVING TO PROVE TO US OR TO SHOW GROUNDS OR REASONS FOR YOUR DEMAND FOR THE SUM SPECIFIED HEREIN.

THE GUARANTEE CONTAINED HEREIN SHALL NOT BE AFFECTED BY ANY CHANGES IN THE CONSTITUTION OF THE BANK OR IN THE CONSTITUTION OF THE BENEFICIARY VIZ. YOURSELF AND SHALL BE VALID TILL (DATE) FROM THE DATE OF ISSUE PROVIDED HOWEVER THAT IN CASE DEMAND IS NOT MADE BY YOU UNDER THIS GUARANTEE ON OR BEFORE (DATE) , BANK SHALL BE FULLY ABSOLVED FROM ANY LIABILITY UNDER THIS GUARANTEE DEED.

WE HEREBY DECLARE AND STATE THAT THIS GUARANTEE UNLESS INVOKED BY YOU AS AFORESAID SHALL BE VALID TILL (DATE) FROM THE DATE OF ISSUE AND SHALL BE NULL AND VOID THEREAFTER WHETHER THE ORIGINAL GUARANTEE IS RETURNED OR NOT

PROFORMA FOR VENDOR APPRAISAL

General Information

Vendor Code

1. Company

M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
City: \_\_\_\_\_  
PIN: \_\_\_\_\_

Phone: \_\_\_\_\_  
\_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_  
\_\_\_\_\_  
Web Site: \_\_\_\_\_  
\_\_\_\_\_

2. Contact Person

Name: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Designation: \_\_\_\_\_  
Phone: \_\_\_\_\_

3. Number of Years in Business : \_\_\_\_\_  
4. Number of Units : \_\_\_\_\_  
5. Total Number of Employees : \_\_\_\_\_

6. Major Customers

1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_

4) \_\_\_\_\_  
5) \_\_\_\_\_  
6) \_\_\_\_\_

Y N

7. Sales Office/Authorized Distributor

If yes Indicate details below

A M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
PIN \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail \_\_\_\_\_

M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
PIN \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-Mail \_\_\_\_\_



C M/s. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 PIN \_\_\_\_\_

Phone: \_\_\_\_\_  
 Fax : \_\_\_\_\_  
 E.Mail \_\_\_\_\_

M/s. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 PIN \_\_\_\_\_

Phone : \_\_\_\_\_  
 Fax : \_\_\_\_\_  
 E.Mail \_\_\_\_\_

**Production & Service Capabilities**

1 Product Range

a \_\_\_\_\_  
 b \_\_\_\_\_  
 c \_\_\_\_\_  
 d \_\_\_\_\_  
 e \_\_\_\_\_

f \_\_\_\_\_  
 g \_\_\_\_\_  
 h \_\_\_\_\_  
 i \_\_\_\_\_  
 j \_\_\_\_\_

2 Processes Existing in the Plant  
 Processes

Availability

Details

1	Conventional Machining	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
2	CNC Machining	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
3	Forging	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
4	Casting	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
5	Plating	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
6	Fabrication	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
7	Tool Making	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
8	Welding	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
9	Gear Manufacturing	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N
10	Designing	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N

N.A

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Quality Information**

**1 Control adopted**

Details

	<input type="checkbox"/>	<input type="checkbox"/>	
a In-Process Inspection	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
b Stage Inspection	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
c Testing	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
d SQC/SPC	Y	N	_____

**2 Inspection & Testing Facility Available**

Details

	<input type="checkbox"/>	<input type="checkbox"/>	
a Material Testing	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
b Precision Measurement	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
c Furnace Testing	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
d Non-Destructive Testing	Y	N	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____
e Calibration	Y	N	_____

	<input type="checkbox"/>	<input type="checkbox"/>	
3 Quality System Implemented-ISO 9000/QS 9000	Y	N	Enclose Certificate
	<input type="checkbox"/>	<input type="checkbox"/>	
4 Capability to supply products with CE Marking	Y	N	
	<input type="checkbox"/>	<input type="checkbox"/>	
5 Quality Level of Existing Products	1	2	3
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Poor	Fair	Good
			4
			<input type="checkbox"/>
			Very Good
			5
			<input type="checkbox"/>
			Excellent
			⇒

**Commercial & Financial Information**

	2015-16	2016-17	2017-18
1 Annual Turnover for last 3 Years in Rs.Lakhs	<input type="text"/>	<input type="text"/>	<input type="text"/>
Net Profit for the last 3 years Rs. Lakhs	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="checkbox"/>	<input type="checkbox"/>	
2 Exports	Y	N	
If Yes, Turnover for last 3 Years in Rs.Lakhs	<input type="text"/>	<input type="text"/>	<input type="text"/>

- UK
- Europe
- Middle East
- CIS Countries
- Others

4 Any Collaboration  Y  N  
If Yes, Indicate Details

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5 Any investment Envisaged for Expansion  Y  N

6 Is company following Direct Procurement Principle  Y  N

7 KST / CST Registration No.

8 Central Excise No

Range

9 SSI Registration No.

10 Do you have Company Brochure  Y  N

11 Experience in handling Government of India's projects  Y  N  
If yes, value of projects executed so far Rs. Lakhs

12 Is the company registered with MEA ?  Y  N  
If Yes, Value of Supply done to MEA Projects  
Rs. Lakhs Direct supply  Thru Agency

13 Supplies done to HMT(I)  Y  N  
If Yes, Value of Supplies done Rs. Lakhs

Details of supplies to HMT(I):

Compiled by:  
Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Note:

- 1 Put V in appropriate check box.
- 2 If space provided is not sufficient to provide details, please attach extra sheet.
- 3 Please attach catalogue/Brochure if available.

			Annexure - 6
PROFORMA FOR VENDOR REGISTRATION			
S.N.	Description	Details	
	(a) Name and address of the vendor		
	(b) Please specify whether you are : Manufacturing Unit / Distributor / Agent etc.,		
1	(c) Telephone No.		
	(d) Fax No.		
	(e) Email ID		
	(f) Company Profile (Please enclose)		
	(g) Turnover of the Company for the past three years		
	(h) Bankers Details		
2	Quality system implemented - ISO 9000 / QS 2000 etc.		
3	Name, address & Telephone No. of the owner / proprietor/partners		
4	Sales Tax Registration No. - Central & State		
6	Registration No.		
7	Details of Products Manufactured / Distributed / offered. Please enclose brochure.		
8	Details of Manufacturing Units / Workshops etc., available		
9	Details of Machines, equipment, computers available		
10	Manpower / Organization structure		
11	List of Major Products / Services		
12	Details of your major customers		
13	Are you exporting Products / services? If so, please furnish details of exports for past 3 years.		
14	Are you providing training to overseas students/trainers and if so, give details of the training courses conducted for last 3 years		
15	Do you have branches or institutes under your group, If yes, give details with address.		
16	Whether you are affiliated / accredited to any Govt. Agency / Reputed organization		
Declaration: I / We declare that the details given above are true and correct.			
Place :			Signature of Authorized person
Date :			With Company Seal

**(Note: Please attach detailed information in a separate sheet wherever required)**

**PROFORMA FOR BANK GUARANTEE FOR BID GUARANTEE**

To,

The Joint General Manager (Projects)  
HMT (International) Limited  
HMT Bhavan, No.59, Bellary Road  
BANGALORE – 560 032

Dear Sir,

In accordance with your invitation to tender No.....M/s. ....  
hereinafter called the bidder with the following Directors on their Board of Directors/Partners of the firm:

- 1.
- 2.
- 3.
- 4.
- 5.

wish to participate in the said tender for supplying Machine / equipment required for the project at IMITC, Monywa, Myanmar being implemented by HMT (International) Limited, Bangalore.

As a Bank Guarantee against Bid Guarantee for a sum of Rs.....(in words & figures) valid for 90 days from the date of opening of the Tender No..... is required to be submitted by the bidder as a condition for the participation, this bank hereby guarantees and undertakes during the above said period of 90 (Ninety) days to immediately pay, on demand by HMT (International) Limited, Bangalore in writing the amount of Rs..... (words & figures) to HMT (International) Limited, Bangalore without any reservation and recourse, if:

- 1) The bidder after submitting his tender, modifies the rates or any of the terms and conditions thereof, except with the previous written consent of the purchaser or
- 2) The bidder withdraws the said bid within 90 days after opening of bid or
- 3) The bidder having not withdrawn the bid, fails to furnish the contract of Performance Guarantee within the period provided in the terms and conditions of the contract.

This guarantee shall be irrevocable and shall remain valid up to 4.00 p.m. on.....if further extension to this guarantee is required, the same shall be extended to such required periods on receiving instructions from M/s.....on whose behalf this guarantee is issued.

Date.....

Signature.....

Place.....

Printed Name.....

Witness

1.....  
(Designation)

2..... (Bank's Common Seal)

**(Note : This should be on bidders letter head)**

## QUALITY AND PACKING DETAILS

### 1. MACHINE / EQUIPMENT:

- 1.1 Machine / Equipment shall be manufactured and delivered in accordance with the specifications as given in this Tender and quality shall be as per Indian / International Standards.
- 1.2 Goods supplied shall be new, genuine, unused and shall be of current models and of current productions.
- 1.3 Any alteration to the specifications, Design, Patterns etc. of the offered goods shall only be made upon the Buyer's consent in writing.
- 1.4 The Tenderer warrants that the materials, metals, chemicals, paints, packing pieces etc. used in the manufacture of goods and all its packing and packaging are fully trivialized and stable under tropical conditions. Any damages arising from the inadequate trivialization, shall be deemed an inherent defects of manufacture.

### 1.5 BOUGHT-OUTS:

- All the bought-out items such as bearings, belts, electricals, motors, contactors, switches, MCBs, fuses, transformers, rubber gaskets, O-rings, conduit pipes, coolant and hydraulic hoses etc. **shall correspond to ISI / International specifications, should preferably have CE mark** and shall be of reputed make like SKF, FENNER, BHARAT, BIJILEE, CUTTLER HAMMER, CROMPTON GREAVES, SIEMENS and TELEMECHNIC.
- 1.6 Bought-out accessories like Furnace Lamps, pumps, Panel Air conditioners, Oil Coolers, Panel Boards, Stabilizers, Transformers etc. should be from reputed original equipment manufacturers.
  - 1.7 Machine / Equipment aesthetics especially sheet metals, guards, doors, covering plates, castings are to be made to international standards. Painting and finish of Furnaces are the most important aspects of aesthetics.

### 2. INSTRUCTION & SPARE PARTS MANUALS:

- 2.1 Neatly printed manuals should be sent with the Machine / Equipment. Instruction Manuals should be of updated version containing complete details of offered Machine / Equipment including customer name, Machine / Equipment number, Machine / Equipment model, year of manufacture etc..
- 2.2 Drawings should be clear and legible. Xerox copies are not acceptable. Details of bought-out items used in the Machine/Equipment should be included in the manual. Good quality paper should be used for printing of manuals.
- 2.3 All foundation drawings showing electrical, air, water and other service connections of Machine / equipment, with floor plans to be provided in two sets, in English.

### 3. SAFETY DEVICES:

Each Machines/equipment should be provided with adequate and all necessary safety devices for the protection of the operator/s, factory personnel and the environment.

### 4. OTHER CONDITIONS:

Since Machine / Equipment are being exported, Machine / Equipment including all accessories have to be built to ensure high quality performance, aesthetic appearance in respect of general finish, painting, sheet metal fabrication and international safety regulations.

**5. PACKING INSTRUCTIONS:**

- 5.1 Export worthy wooden / plywood packing as per Indian / International standards suitable for sea freight.
- 5.2 Equipment, accessories and spares are to be covered by thick silpaulin sheet or 1 mm thick polythene sheets and all openings are to be sealed .
- 5.3 All external bright / machined surfaces should be protected with coating of OKS-CORTEC VCI 369 N Rust preventive. OKS rust preventive to be used.
- 5.4 Rust preventives to be used whose shelf life is not less than one year.
- 5.5 Packing list with respect to each case to be prepared and given to HMT(I) along with other documents.
- 5.6 Machine / Equipment should be firmly fixed to be base of packing case to prevent jerking or local movement.
- 5.7 Delivery Voucher should clearly indicate packing case dimension with net and Gross weight and case number if there are more than one case.
- 5.8 Photographs before and after packing to be taken and sent to HMT(I).
- 5.9 Handling marks of the packing cases to be shown on packing cases.

**PROFORMA FOR MANUFACTURER AUTHORIZATION FORM (Applicable for Lots -  
(On Manufacturer's Letter Head)**

Date :

The Joint General Manager, Projects,  
HMT (International) Limited,  
No.59, Bellary Road,  
Bangalore – 560 032

Sub: Manufacturer Authorization against tender No. HMTI/PROJ/IMITC/MONYWA/S-001/18 Dated 12-11-2018 for Supply, Installation / Commissioning & Trials of “.....” for the Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC) Monywa, Myanmar.

Dear Sir,

We, M/s..... (Insert Name of the Manufacturer) having registered office at .....(Insert Address of the Manufacturer) by virtue of being manufacturer for .....(Insert Name of the product/s) hereby authorize M/s.....(Insert Name of the bidder) having their office at .....(Insert Address of the bidder) to submit the bid, negotiate, conclude the contract and provide after sales support for our range of products quoted by them to meet the above mentioned tender requirements for IMITC Monywa, Myanmar.

No company or firm or individual other than M/s. ....(Insert Name of the bidder) are authorized to bid and conclude the contract for the above goods manufactured by us against the above referred tender.

The undersigned is authorized to issue such authorization on behalf of M/s..... (Insert Name of the manufacturer).

For M/s. (Name of the Manufacturer)  
Signature & Seal of the Company



**LOT 1 (1) - Pillar Drill (capacity - 25 mm)**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 99 of Annex 4 - 1 no		<b>Quantity: 7 Nos</b>	
Ref No. Sl. No. 5 of Annex 5 - 2 nos			
Ref No. Sl. No. 11 of Annex 6 - 1 no			
Ref No. Sl. No. 45 of Annex 7 - 3 nos			
Sl. No.	Item	Brief Specification	Quantity
<b>Pillar Type Drilling Machine</b> with all standard accessories and Electrical suitable for <b>400V, 3Phase, 50Hz, AC</b> supply and control Voltage 230V, 1 phase AC supply.			
1	Major specifications		
1.1	Drilling capacity in steel / MT in spindle	25 mm / MT3	
1.2	Tapping Capacity	M16	
1.3	No./Range of spindle speeds	10/ 100-2700 rpm	
1.4	No. / Range of power feeds	3 / 0.1, 0.2 & 0.3	
1.5	Spindle traverse	~ 140 mm	
1.6	Pillar diameter	~ 120 mm	
1.7	Max. distance b/w center of spindle and pillar front	~ 260 mm	
1.8	Max. distance b/w spindle and table	~ 610 mm	
1.9	Max. distance b/w spindle and base	~ 1080 mm	
1.10	Table working surface diameter	~ 335 mm	
1.11	Base working surface dimension	~ 320 x ~ 300 mm (DxW)	
1.12	Motor Power	1.5 kW	
1.13	Coolant Motor Power	0.1 kw	
1.14	Colour of the Machine:	Dual colour: Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
2	Required Accessories / Spares		
2.1	Coolant pump motor and pipe fittings		1 set each
2.2	Halogen machine lamp		1 set each
2.3	Drill chuck 19 mm with key and arbor		1 set each
2.4	Machine vice 6" swivel base with 'T' bolts		1 set each
2.5	Reduction sleeve MT3-MT2		1 set each
2.6	Reduction sleeve MT3-MT1		1 set each
2.7	Service Tool Kit		1 set each
2.8	DOL starter		1 set each
3	Set of mechanical and electrical spare parts for 2 year normal operation. (Item wise quantity with price to be provided)		1 set each
4	Operation, Maintenance and spare parts manual		3 sets each
5	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint - 1/2 litre each colour in airtight sealed containers, Paint brush ½" 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Foundation bolts and levelling plates.</li> </ul>	1 set each

**LOT 1(2) - Pillar Drill (capacity - 20 mm)**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 36 of Annex 8		Quantity: 2 Nos	
Sl. No.	Item	Brief Specification	Quantity
1	<b>Pillar Type Drilling Machine</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply and control Voltage 230V, 1 phase AC supply.		2
1	<b>Major specifications</b>		
1.1	Drilling capacity in steel / MT in spindle	20 mm / MT2	
1.2	Tapping Capacity	M12	
1.3	No./Range of spindle speeds	10/ 100-2700 rpm	
1.4	Feed	Hand	
1.5	Spindle traverse	~ 125 mm	
1.6	Pillar diameter	>75 mm	
1.7	Max. distance b/w center of spindle and column front	~ 200 mm	
1.8	Max. distance b/w spindle and table	~ 300 mm	
1.9	Max. distance b/w spindle and base	~ 600 mm	
1.10	Table working surface diameter	~ 370 mm	
1.11	Base dimension	~ 385 x ~ 375 mm (DxW)	
1.12	Motor Power	0.75 kW	
1.13	Coolant Motor Power	0.1 kw	
	Colour of the Machine:	Dual colour: Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Coolant pump motor and pipe fittings		1 set each
2.2	Halogen machine lamp		1 set each
2.3	Drill chuck 19 mm with key and arbor		1 set each
2.4	Machine vice 4" swivel base with 'T' bolts		1 set each
2.5	Reduction sleeve MT2-MT1		1 set each
2.6	Service Tool Kit		1 set each
2.8	DOL starter		1 set each
3	Set of mechanical and electrical spare parts for 2 year normal operation. (Item wise quantity with price to be provided)		1 set each
4	Operation, Maintenance and spare parts manual		3 sets each
5	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint - 1/2 litre each colour in airtight sealed containers, Paint brush ½" 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Foundation bolts and leveling plates.</li> </ul>	1 set each

**LOT 1(3) - Pillar Drill (capacity - 13 mm)**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 13 of Annex 9 – 2 nos			
Ref No. Sl. No. 6 of Annex 5 – 2 nos			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Pillar Drilling Machine</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50cy AC supply and control Voltage 230V, 1 phase AC supply.		4
1	Major specifications		
1.1	Drilling capacity in steel / MT in spindle	13 mm / MT1	
1.2	No./Range of spindle speeds	4/ 480-2080 rpm	
1.3	Feed	Hand	
1.4	Spindle traverse	~ 100 mm	
1.5	Pillar diameter	~ 55 mm	
1.6	Max. distance b/w center of spindle and pillar front	~ 149 mm	
1.7	Max. distance b/w spindle and table	~ 300 mm	
1.8	Max. distance b/w spindle and base	~ 930 mm	
1.9	Table working dimension	~ 200 x ~ 200 mm	
1.10	Base dimension	~ 285 x ~ 305 mm (DxW)	
1.11	Motor Power	0.37 kW	
1.12	Coolant Motor Power	0.1 kw	
1.13	Colour of the Machine:	Dual colour: Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
2	Required Accessories / Spares		
2.1	Coolant pump motor and pipe fittings		1 set each
2.2	Halogen machine lamp		1 set each
2.3	Drill chuck 13 mm with key and arbor		1 set each
2.4	Machine vice 4" swivel base with 'T' bolts		1 set each
2.5	Service Tool Kit		1 set each
2.6	DOL starter		1 set each
3	Set of mechanical and electrical spare parts for 2 year normal operation. (Item wise quantity with price to be provided)		1 set each
4	Operation, Maintenance and spare parts manual		3 sets each
5	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint - 1/2 litre each colour in airtight sealed containers, Paint brush ½" 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Foundation bolts and leveling plates.</li> </ul>	1 set each

**LOT 1(4) – Pedestal Grinder**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 44 of Annex 7 – 3 nos			
Ref No. Sl. No. 9 of Annex 5 – 2 nos.			
Ref No. Sl. No. 12 of Annex 6 – 1 no			
Ref No. Sl. No. 9 of Annex 9 – 2 nos			
Ref No. Sl. No. 100 of Annex 4 – 1 no.			
Ref No. Sl. No. 37 of Annex 8 – 2 nos			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Pedestal Grinding Machine</b> with all standard accessories and Electrical suitable for <b>400V, 3Phase, 50Hz, AC supply</b> and control Voltage 230V, 1 phase AC supply.		11
1	Major specifications		
	Double ended with dynamically balanced motor with wheel guards having removable end caves		
1.1	Centre distance between wheels	~ 420 mm	
1.2	Height from Base to spindle centre	~ 910 mm	
1.3	Wheel speed	~ 2860 rpm	
1.4	Motor Power	0.6 kW	
1.5	Grinding Wheel size	200 x 25 x 19.05 mm	
1.6	Colour of the Machine:	Dual colour: Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
2	Required Accessories / Spares		
2.1	DOL starter		1 each
2.2	Spark protectors		1 set each
2.3	Spare vitrified bonded grinding wheels – 5 nos		1 set each
2.4	Service Tool set		1 set each
3	Set of mechanical and electrical spare parts for 5 year normal operation. (Item wise quantity with price to be provided)		1 set each
4	Operation, Maintenance and spare parts manual		3 sets each
5	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint - 1/2 litre each colour in airtight sealed containers, Paint brush ½" 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Set of anti vibration pads/Foundation bolts and leveling plates.</li> </ul>	1 set each

**LOT 1 (5) – Hydraulic Power Hack saw**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 8 of Annex 5			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Hydraulic Power Hacksaw Machine</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50cy AC supply and control Voltage 230V, 1 phase AC supply.		1
1	<b>Major specifications</b>		
1.1	Maximum dimension of material cut	200 mm	
1.2	Cutting Speeds	3 range – 80/100/125 Strokes/min	
1.3	Hacksaw blade size	400 x 32 x 1.6 mm	
1.4	Motor Power	0.75 kW	
1.5	Coolant Motor Power	0.1 kw	
1.6	Colour of the Machine:	Dual colour: Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
2	<b>Required Accessories / Spares</b>		
2.1	Coolant pump motor and pipe fittings		1 set
2.2	Control panel		1 set
2.3	Adjustable material stop		1 no
2.4	Blade fitted on the m/c		1 no.
2.5	Spare Blade		5 nos.
2.6	Service Tool set		1 set
2.7	Bundle jaw		1 no.
2.8	Adjustable material stand		1 no.
3	Set of mechanical and electrical spare parts for 2 year normal operation. (Item wise quantity with price to be provided)		1 set
4	Operation, Maintenance and spare parts manual		3 sets
5	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint - 1/2 litre each colour in airtight sealed containers, Paint brush ½" 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Set of anti vibration pads/Foundation bolts and leveling plates.</li> </ul>	1 set

**LOT 2 – Vertical Band Saw**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 7 of Annex 5		Quantity: 1 No	
Vertical Band Saw Diameter 450mm with all standard and required accessories suitable for 3 phase 400 V 50Hz AC. Control Voltage 230V.			
1.	<b>Basic Machine:</b>		
1.1	Band wheel dia	450 mm	
1.2	Throat	~ 400 mm	
1.3	Under guide height	~ 300 mm	
1.4	Blade size mm	Approx. 4800 x3 1 x 1.1mm (Bimetal band saw M42 grade	
1.5	Cutting speed m/min	20 to 100 M/min	
1.6	Saw Motor	5 HP	
1.7	Table size	~ 800 x 800 mm	
1.8	Working height	~1100 mm	
1.9	Hydraulic Motor	=/> 1.0 HP	
1.10	Coolant Motor	=/> 0.25 HP	
2.	<b>Required Accessories:</b>		
2.1	<b>Additional blade</b>	2 nos	
2.2	VFD to control band speed through panel box.		
2.3	Hydraulic band tension.		
2.4	Inbuilt coolant tank with coolant pump.		
2.5	One bimetal band saw blade M-42 grade.		
2.6	Heavy duty gear box for necessary torque.		
2.7	Separate electrical control panel.		
2.8	Hydraulic table feeding with 500mm table stroke.		
2.9	Heavy duty carbide face blade guide with prey straightening guide rollers.		
2.10	Hydraulic power pack with 40lit tank capacity.		
2.11	Automatic machine stop in case of blade brake.		
2.12	Infinite variable feed control through flow control valve.		
2.13	“T” slot on the top of the table for job clamping.		
2.14	Hydraulic arrangement for upper guide control.		
2.15	Clamping fixture to hold the ring.		
3	Set of spare parts for Electrical & Mechanical recommended for two years normal operation of machine	Item wise quantity with price to be provided	1 Set
4	Colour of machine :	Dual Colour : Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
5	Items required for Erection & Commissioning to be supplied with each machine.	<ul style="list-style-type: none"> <li>• Touch up paint - 1 litre each colour in airtight sealed containers, Paint brush ½” 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Set of anti vibration mounting pads [Rubber or Spring Type] /Foundation bolts and leveling plates.</li> </ul>	1 Set

**LOT – 3 - Automatic Plastic Injection Moulding Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Ref No. Sl. No. 5 of Annex 6 - Automatic Plastic Injection Moulding Machine		Qty : 1 No.
Ref No. Sl. No. 6 of Annex 6 – Tooling with colour mixer, scrap grinder, oven, cooling tower etc.		
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	<b>Automatic Plastic Injection Moulding Machine</b> with SERVO motor & Gear pump with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply.	1
<b>1.1</b>	<b>Major specifications</b>	
1.1.1	Screw diameter	~ 50 - 60 mm
1.1.2	Injection weight max.	350 gms
1.1.3	Injection pressure	1400 - 1700 bar
1.1.4	Screw rpm	250 – 310 min (RPM)
1.1.5	Clamping force	180 Tons
1.1.6	Mould opening stroke	~ 450 mm
1.1.7	Distance between Tie bars, H x V	~ 470 x ~ 470 mm
1.1.8	Mold thickness	Min. 200 mm, Max. 500 mm
1.1.9	Ejector stroke	~ 100 mm
1.1.10	Ejector force	45 kN
1.1.11	Ejector number	5 Pcs
1.1.12	Oil tank capacity	~ 400 Litres
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Allen key set (mm series, 1.5 to 10mm, plate)	1 Set
1.2.2	Bigger Allen keys (12/ 14/ 17/ 19mm)	1 No. Each
1.2.3	Single ended spanners (36/41/46/55/60 mm)	1 No. Each
1.2.4	Double ended spanners (6-7/ 8-9/ 10-11/ 12-13/ 14-15/ 16-17/ 18-19/ 20-22/ 24-27/ 30-32 mm)	1 No. Each
1.2.5	“O” spanner for screw tip head body	1 No.
1.2.6	Injection screw spanner	1 No.
1.2.7	Injection cylinder – rod seal	2 Nos.
1.2.8	Injection cylinder – rod wiper	2 Nos.
1.2.9	Brass ferrules; 4mm & 6mm	10 Each
1.2.10	Magnetic grill for feed hopper	1 No.
1.2.11	Set of “O” Rings	1 Set
1.2.12	Operation, Maintenance and spare parts manual	3 Sets per machine
<b>1.3</b>	<b>Colour: Dual Colour Himmel Blue (RAL 5015) and Soft Grey (RAL 7035) Polyurethane Paint</b>	
<b>1.4</b>	<b>SET OF MECHANICAL AND ELECTRICAL SPARE PARTS FOR 2 YEARS NORMAL OPERATION. (EACH EQUIPMENT 1 SET)</b> -Please indicate the detailed list of spares with individual prices	
<b>1.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.5.1	Touch up Paint - 1 Litre each, Brush- ½” – 2 Nos., Cora Cloth - 5 Meters, Cotton Waste - 2 Kgs.	
1.5.2	Set of additional MCB's as spares ( MCBs to be used in lieu of fuses)	
1.5.3	Initial fill of Hydraulic /Lubrication Oil packed in separate containers & sealed	
1.5.4	Anti-vibration mounting pads - 1 set	
1.5.5	Servo Stabiliser – 40Kva	
1.5.6	Three molds set- To produce/ manufacture 1) Plate 2) 1 litre cap mug with handle 3) PP small Bowl of weight 30 to 100 gm	
<b>1.6</b>	<b>Tooling cost for Plastic Injection Machine</b>	1 Set
1.6.1	Cooling Tower	5 T
1.6.2	Color Mixer	50 kg capacity
1.6.3	PP material & Master batch	Molding grade 500 Kg & Master batch - (Red, yellow, blue, green, orange & Violet-2 kgs each)
1.6.4	Scrap Grinder	100 kg / hr
1.6.5	Hopper Dryer	75 kg

**Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.**

Ref No. Sl. No. 5 of Annex 6 - Automatic Plastic Injection Moulding Machine

Qty : 1 No.

Ref No. Sl. No. 6 of Annex 6 – Tooling with colour mixer, scrap grinder, oven, cooling tower etc.

**TECHNICAL SPECIFICATION**

Sl. No.	Description		Qty
1.6.6	Mold clamps	M16 threaded hole with clamp – 1 set	
<b>Note:</b>	<b>Plastic injection moulding machine to be tested with Mould and proved with sample output and to be dispatched only after getting approval from HMT(I)</b>		



**LOT - 4 CNC Electric Discharge Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Ref No. Sl. No. 2 of Annex 6		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>1</b>	<b>CNC Electric Discharge Machine</b> , consisting of Machine Tool Unit, Pump Filter Unit (Dielectric unit), Generator Unit, Programmable Multi Axis Controller along with all standard accessories and Electricals suitable for 3 phase 400V 50Hz AC.	<b>1</b>
<b>2</b>	<b>Technical Specifications</b>	
<b>2.1</b>	<b>Machine Tool Unit</b>	
2.1.1	Work tank internal dimensions (WxDxH)	≥ 750 x 500 x 250 mm
2.1.2	Work table dimensions	≥ 500 X 350 mm
2.1.3	Traverse (X, Y, Z)	≥ 300, 200, 225 mm
2.1.4	Maximum Job weight	300 kg
2.1.5	Maximum Job height	250 mm
<b>2.2</b>	<b>Dielectric Unit</b>	
2.2.1	Dielectric Capacity	≥ 400 Ltrs
2.2.2	Paper Filtration system	10 μ paper cartridge 2 nos.
<b>2.3</b>	<b>Generator Unit</b>	
2.3.1	Working current	≥ 50 Amp
<b>2.4</b>	<b>Accessories</b>	
2.4.1	Set of standard tools and machine accessories	1 Set
2.4.2	Flush aid complete	1 No.
2.4.3	Axis corrector assembly	1 No.
2.4.4	Clamping kit	1 No.
2.4.5	Master surface plate	1 No.
2.5	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>2.6</b>	<b>Software package CD/pen drive</b>	1 No.
<b>2.7</b>	<b>Colour: Standard</b>	
<b>2.8</b>	<b>SET OF MECHANICAL AND ELECTRICAL SPARE PARTS FOR 2 YEARS NORMAL OPERATION.</b> Please indicate the detailed list of spares with individual prices	
<b>2.9</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
2.9.1	Touch up Paint - 1 Litre each, Brush- ½” – 2 Nos., Cora Cloth - 2 Meters, Cotton Waste - 1 Kg.	
2.9.2	Set of additional MCB's as spares – 1 set	
2.9.3	Leveling plates/ Anti vibration leveling pads - 1 set	
2.9.4	Electrode component - Copper and steel of 70 mm dia with suitable profile – 3 set	
<b>2.10</b>	<b>Additional Items to be supplied with the machine</b> Please indicate prices individually for following items	
2.10.1	EDM oil packed in separate container & sealed in barrel of 210 litres capacity	3 Barrels
2.10.2	Servo Stabilizer – 3 phase, 400 V, 9KVA	1 No
2.10.3	Paper Filter element 10micron	1 Set

**LOT – 5 CNC Wire cut EDM Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Ref No. Sl. No. 3 of Annex 6		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	<b>CNC Wirecut EDM</b> consisting of Machine Tool Unit, CNC Pulse Generator Unit, Programmable Multi Axis Controller, part programming system software and Dielectric system with paper filtration filter unit along with all standard accessories and Electricals suitable for 3 phase 400V 50Hz AC.	1
2	<b>Technical Specifications</b>	
2.1	<b>Machine Tool Unit</b>	
2.1.1	Table size	≥ 350 x 500 mm
2.1.2	Maximum Job height	≥ 200 mm
2.1.3	Maximum Job weight	300 kg
2.1.4	Main table traverse (X,Y)	≥ 250, 250 mm
2.2	<b>Generator Unit</b>	
2.2.1	Display	Colour TFT / LCD
2.2.2	Min. input command	0.001 mm
2.2.3	Interpolation function	Linear & Circular
2.2.4	Data Input / Output	<ul style="list-style-type: none"> <li>• USB Port</li> <li>• Keyboard &amp; Mouse</li> </ul>
2.3	<b>Dielectric Unit</b>	
2.3.1	Dielectric fluid	DM Water
2.3.2	Tank capacity	≥ 55 litres
2.3.3	Filter	Filter type
2.4	<b>Accessories</b>	
2.4.1	Set of standard tools and machine accessories	1 Set
2.4.2	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
2.5	<b>Software package</b>	
2.5.1	System software	1 No.
2.5.2	Hardware lock for system software	1 No.
2.5.3	CNC System software for controller	1 No.
2.6	<b>Colour:</b> Standard	
2.7	<b>SET OF MECHANICAL AND ELECTRICAL SPARE PARTS FOR 2 YEARS NORMAL OPERATION.</b> Please indicate the detailed list of spares with individual prices	
2.8	<b>Items required for E&amp;C to be supplied with the machine:</b>	
2.8.1	Touch up Paint - 1 Litre each, Brush- ½” – 2 Nos., Cora Cloth - 5 Meters, Cotton Waste - 2 Kgs.	
2.8.2	Set of additional MCB's as spares	
2.8.3	Leveling plates /Anti vibration leveling pads - 1 Set	
2.9	<b>Additional Items to be supplied with the machine</b> Please indicate prices individually for following items	
2.9.1	Adjustable bridge comp	1 No.
2.9.2	Ion exchange resin – One container consisting of 7.5 Litres	1 No.
2.9.3	EDM wire special soft 0.25 mm dia – One spool of 10 Kgs	7 Nos.
2.9.4	Servo Stabilizer – 3 Phase, 400 V, 4.5 KVA	1 No.

**LOT - 6 (1) Universal Testing Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 70 of Annex 6		Quantity: 1 No	
Item: Universal Testing Machine			
Sl.No.	Description	Brief Specification	Remarks
	<b>Universal Testing Machine</b> with all standard and required accessories and Electricals suitable for 3 phase 400V 50Hz AC		1
1.	<b>Technical Specification:</b>		
1.1	Maximum Capacity	100Kn ( 10 Tons)	
1.2	No. of Measuring Range / Range	4 / 0 – 100 Kn	
1.3	No. of Min. Graduation / Range	4 / 0.02 – 0.2 Kn	
1.4	Max. clearance for Tensile Test	50 – 700 mm	
1.5	Max. clearance for Compression Test	0 – 700 mm	
1.6	Clearance between columns	450 mm	
1.7	Ram Stroke	150 mm	
1.8	Max. Piston Speed at no load	300 mm / min	
1.9	Power	1 kW	
2.	<b>Required Features / Accessories</b>		
	<i>For Tension Test</i>		
2.1	Grips for testing round specimen	Specimen Dia. : 5 – 10 mm	1 Set
2.2	Grips for testing round specimen	Specimen Dia. : 10 – 20 mm	1 Set
2.3	Grips for testing round specimen	Specimen Dia. : 20 – 30 mm	1 Set
2.4	Grip for testing flat specimen	Specimen Max. width 50 mm , 0 – 10 mm thickness	1 Set
2.5	Grip for testing flat specimen	Specimen Max. width 50 mm , 10 – 20 mm thickness	1 Set
2.6	Bare attachment for threaded & shouldered specimen		1 No.
2.7	Brushes for testing threaded & shouldered specimen		8 Sets
	<i>For Compression Test</i>		
2.8	Compression plates	Dia 120 mm, Hardened, Ground & Polished	1 Pair
	<i>For Bending / Transverse Tests</i>		
2.9	Table with adjustable Rollers	- Width of Rollers : 160 mm - Diameter of Rollers : 30 mm - Max. clearance between supports : 500 mm - Radius of Punch Tops : 12 mm and 16 mm	1 No.
2.10	Double shear test attachment	5,6 mm	3 Sets
2.11	Set of Service Tools		1 Set
3	Set of Operation, Maintenance and Spare Parts Manual		3 Sets
4	Set of spare parts Electrical & Mechanical recommended for two years normal operation of machine	Item wise quantity with price to be provided	1 Set
5	Colour of machine :	Dual Colour : Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint	
6	Items required for Erection & Commissioning to be supplied with machine.	Touch up paint ( 1 litre each colour) Cotton waste ( 2 kg) Cora cloth ( 5 metres ) Initial fill of Hydraulic / Lubrication / Cutting Oil Set of foundation bolts / Anti-vibration pads / leveling wedges	1 Set

**LOT - 6 (2) Hardness Testing Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 71 of Annex 6		Quantity: 1 No	
Sl.No.	Description	Brief Specification	Remarks
	<b>Item: Hardness Testing Machine</b> with all standard and required accessories		1
1.	<b>Technical Specifications:</b>	Rockwell Type	
1.1	Test Loads	60, 100, 150 kgf	
1.2	Initial Load	10 kgf	
1.3	Max. Test height	220 mm	
1.4	Depth of throat	130 mm	
1.5	Max. depth of elevating screw below base	230 mm	
2.	<b>Required Features / Accessories</b>		
2.1	Testing Table	50 mm dia.	1 No.
2.2	Testing table	35 mm dia with "V" groove for round jobs upto 45 mm dia.	1 No.
2.3	Diamond Indentor	120 <sup>0</sup>	1 No.
2.4	Steel Ball Indentor	1/16"	1 No.
2.5	Test Block	Rockwell 'C'	1 No.
2.6	Test Block	Rockwell 'B'	1 No.
2.7	Clamping Device		1 No.
2.8	Rubber bellow for elevating screw protection		1 No.
2.9	Set of Service Tools		1 Set
3	Set of Operation, Maintenance and Spare Parts Manual		3 Sets
4	Set of Mechanical spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided	1 Set
5	Colour of machine :	Standard	
6	Items required for Erection & Commissioning to be supplied with machine.	Touch up paint ( 250 ML each colour) Cotton waste ( 1 kg) Cora cloth ( 2 metres ) Initial fill of Hydraulic / Lubrication / Cutting Oil Set of foundation bolts / Anti-vibration pads / leveling wedges	1 Set

**LOT - 7 – Hydraulic Press 100T**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Ref No. Sl. No. 15 of Annexure 6 - Hydraulic Press – 100 T		
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>1</b>	<b>Hydraulic Press of Capacity 100 Tons</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50 Hz AC supply.	<b>1</b>
<b>1.1</b>	<b>Description:</b> Hydraulic Press of rigidly built C type frame fabricated from high quality Steel plates, stress relieved, non-inclinable and fitted with hydraulic cylinder, hydraulic power pack & Oil tank.	
<b>1.2</b>	<b>Major specifications</b>	
1.2.1	Press Stroke	≥ 400 mm
1.2.3	Shut Height	≥ 600 mm
1.2.4	Moving Platten Size (L x B)	Minimum 600 x 500 mm
1.2.5	Table Size	Minimum 800 x 500 mm
1.2.6	Height of Table from floor	≥ 750 mm
1.2.7	Pressing Speed	≥ 6 mm/sec
1.2.9	Main Motor Power	≥ 10 HP
<b>1.3</b>	<b>Accessories</b>	
1.3.1	Overload safety device	1 no.
1.3.2	Control panel	1 no.
1.3.3	Hydraulic Cylinder	1 no.
1.3.4	Punches, die plates, other accessories (1 set each)	Forming operation - demonstration
1.3.5	Hydraulic power pack comprising of comprising of Motors, Pump, control valve, non return valve, filter and pressure gauge	1 set
1.3.6	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>1.4</b>	<b>Colour:</b> Dual Colour - Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint.	
<b>1.5</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> Please indicate the detailed list of spares with individual prices	
<b>1.6</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.6.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
1.6.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.6.3	Mounting bolts - 1 set	

**LOT: 8 (1) - MECHANICAL PRESS 10T**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Ref: No. SI No. 16 of Annex 6		
Item: Mechanical Press – 10T		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>1</b>	<b>Mechanical Press Machine</b> of Capacity <b>10 Tons</b> with all standard accessories and Electrical <b>suitable for 400V, 3Phase, 50Hz AC supply.</b>	<b>1</b>
<b>1.1</b>	<b>Description:</b> Mechanical Press of rigidly built C type or Gap frame fabricated from high quality stress relieved Steel plates, non-inclinable, forged alloy carbon steel crank shaft fitted with clutch and brake assembly, Manual slide adjustment, suitable lubrication system and over load protection and suitable control panel.	
<b>1.2</b>	<b>Major specifications</b>	
1.2.1	Strokes per Minute	~ 70 mm
1.2.2	Stroke Length	~ 50 mm
1.2.3	Shut Height	~ 200 mm
1.2.4	Bolster Size	~ 500 x 300 mm
1.2.5	Bolster Thickness	~ 60 mm
1.2.6	Height of Bolster surface from floor	~ 750 mm
1.2.7	Slide Area (L x B)	~ 210 x 160 mm
1.2.8	Main Motor Power	≥ 1.5 HP
<b>1.3</b>	<b>Accessories</b>	
1.3.1	Overload safety device (Mechanical Shear Plate)	1 no.
1.3.2	Manual Slide Adjustment	1 no.
1.3.3	Control panel	1 no.
1.3.5	Operation, Maintenance and spare parts manual	3 Sets per machine
<b>1.4</b>	<b>Colour:</b> Dual Colour - Himmel Blue (RAL 5015) and Soft Grey (RAL 7035) Polyurethane Paint	
<b>1.5</b>	<b>Set of mechanical and electrical spare parts for 3 years normal operation. (EACH EQUIPMENT - 1 SET)</b> <ul style="list-style-type: none"> <li>Please indicate the detailed list of spares in Technical bid without price.</li> <li>Please indicate the detailed list of spares with individual prices in Commercial bid only.</li> </ul>	
<b>1.6</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.6.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
1.6.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.6.3	Mounting bolts - 1 set	

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Item: Mechanical Press of Capacity - 100 Tons		
Ref No. Sl. No 17 of Annex 6		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>2</b>	<b>Mechanical Press Machine</b> of Capacity <b>100 Tons</b> with all standard accessories and Electrical suitable for <b>400V, 3 Phase, 50 Hz AC supply.</b>	<b>1</b>
<b>2.1</b>	<b>Description:</b> Mechanical Press of rigidly built C type or Gap frame fabricated from high quality stress relieved Steel plates, non-inclinable, forged alloy carbon steel crank shaft fitted with clutch and brake assembly, Manual slide adjustment, suitable lubrication system and over load protection and suitable control panel.	
<b>2.2</b>	<b>Major specifications</b>	
2.2.1	Strokes per Minute	~ 40
2.2.2	Stroke Length	~ 100 mm
2.2.3	Shut Height	~ 350 mm
2.2.4	Bolster Size (L x B)	~ 950 x 600 mm
2.2.5	Bolster Thickness	~ 90 mm
2.2.6	Height of Bolster surface from floor	~ 800 mm
2.2.7	Slide Area (L x B)	~ 600 x 450 mm
2.2.8	Main Motor Power	≥ 10 HP
<b>2.3</b>	<b>Accessories</b>	
2.3.1	Overload safety device (Mechanical Shear Plate)	1 no.
2.3.2	Motorized / Manual Slide Adjustment	1 no.
2.3.3	Control panel	1 no.
2.3.4	Operation, Maintenance and spare parts manual	3 Sets per machine
<b>2.4</b>	<b>Colour:</b> Dual Colour - Himmel Blue (RAL 5015) and Soft Grey (RAL 7035) Polyurethane Paint	
<b>2.5</b>	<b>Set of mechanical and electrical spare parts for 3 years normal operation.</b> <ul style="list-style-type: none"> <li>• Please indicate the detailed list of spares in Technical bid without price.</li> <li>• Please indicate the detailed list of spares with individual prices in Commercial bid only.</li> </ul>	
<b>2.6</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
2.6.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
2.6.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
2.6.3	Mounting bolts - 1 set	

Lot 9 - Circle Cutting Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Item : Circle Cutting Machine		
Ref No. Sl. No 6 of Annex 9		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>2.</b>	<b>Circle Cutting Machine</b> , Maximum Dia. 600 mm, with all standard accessories and Electrical suitable for 400V, 3Phase, 50cy AC supply.	<b>1</b>
<b>2.1</b>	<b>Major specifications</b>	
2.1.1	Capacity to cut circles Minimum / Maximum	110 mm / 600 mm
2.1.2	Capacity in Mild Steel	10 SWG
2.1.3	Capacity in Stainless Steel	16 SWG
2.1.4	Strip Cutting Capacity	12 mm to 175 mm
2.1.5	Motor Power	≥ 2 HP
<b>2.2</b>	<b>Required Accessories / Spares</b>	
2.2.1	Spare Blade set	1 No.
2.2.2	Service Tool Kit	1 Set
2.2.3	Spare V Belts	1 Set
2.2.4	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>2.3</b>	<b>Colour: Standard</b>	
<b>2.4</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> <ul style="list-style-type: none"> <li>• Please indicate the detailed <b>list of spares in Technical bid without price.</b></li> <li>• Please indicate the detailed <b>list of spares with individual prices in Commercial bid only.</b></li> </ul>	
<b>2.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
2.5.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
2.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	



**LOT: 10 – Nibbling-Cropping-Punching M/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Item : Nibbling-Cropping-Punching M/c		
Ref No. SI No 4 of Annex 9		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Nibbling-Cropping-Punching M/c with all standard accessories & Electrical suitable for <b>400V, 3Phase, 50Hz AC supply.</b>	1
<b>1.1</b>	<b>Major specifications</b>	
<b>1.1.1</b>	<b>Punching:</b>	
1.1.1.1	Punching Force	80 Ton
1.1.1.2	Maximum Punching Thickness	20 mm
1.1.1.3	Maximum Diameter of Punching	30 mm
1.1.1.4	Max. Length of Cylinder Stroke	80 mm
1.1.1.5	No. of Strokes (per/min)	≥ 8
1.1.1.6	Depth of Throat	355 mm
<b>1.1.2</b>	<b>Steel Bar Shear</b>	
1.1.2.1	Round	50 mm
1.1.2.2	Square	45 x 45 mm
<b>1.1.3</b>	<b>Angle Shear</b>	
1.1.3.1	Angle Section (90 Degree)	140 x 140 x 12 mm
1.1.3.2	Angle Section (45 Degree)	70 x 70 x 10 mm
<b>1.1.4</b>	<b>Sheet Metal Shear</b>	
1.1.4.1	Shear Angle	8 Deg
1.1.4.2	Flat Bar : Length x Thickness	330 x 20 mm
1.1.4.3	Max. Length x Thickness (For Flat Bar)	480 x 10 mm
1.1.4.4	Max. Shearing Thickness	20 mm
<b>1.1.5</b>	<b>Notching</b>	
1.1.5.1	Thickness	12 mm
1.1.5.2	Width	50 mm
1.1.5.3	Length	100 mm
<b>1.1.6</b>	<b>Motor</b>	7.5 HP
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Electrical Control Panel	1 Set
1.2.2	Fine Stroke adjustment rod with limit switch	1 No.
1.2.3	Manual job Clamping Device	1 No.
1.2.4	Suitable blades for Angle cutting, Flat cutting, Round bar cutting, Square bar cutting, Punching & Notching	1 Set
1.2.5	One die & punch for round punching	1 Set
1.2.6	Pair of foot switch	1 Set
1.2.7	Manual back gauge	1 Set
1.2.8	Operation, Maintenance and spare parts manual	3 sets per machine
<b>1.3</b>	<b>Colour:</b> Dual Colour - Himmel Blue (RAL 5015) and Soft Grey (RAL 7035) Polyurethane Paint	
<b>1.4</b>	<b>Set of Mechanical and Electrical spare parts for 3 years normal operation.</b> <ul style="list-style-type: none"> <li>• Please indicate the detailed <b>list of</b> spares in Technical bid without price.</li> <li>• Please indicate the detailed list of spares with individual prices in Commercial bid only.</li> </ul>	
<b>1.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.5.1	Touch up Paint - 1 Litre each, Brush- ½” – 2 Nos., Cora Cloth - 2 Meters, Cotton Waste - 1 Kgs.	
1.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.5.3	Set of anti vibration mounting pads / Foundation bolts with leveling plates - 1 Set	

**Lot-11 Roll Bending Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.		
Item : Roll Bending Machine		
Ref No. 3 of Annex 9		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>1.</b>	<b>Motorized Roll Bending Machine</b> , Capacity 1250 mm x 3 mm with Manual centralized lubrication system, Reverse/forward roll drive with overload protection, Bending rolls are made of Alloy steel, Bottom rolls are power driven, top roll adjustment by manual and with all standard accessories and Electrical suitable for 400V, 3 Phase, 50H AC supply.	<b>1</b>
<b>1.1</b>	<b>Technical Specifications</b>	
1.1.1	Size	≥ 1250 mm x 3 mm
1.1.2	Dia Bottom Rolls	≥ 90 mm
1.1.3	Dia of Top Roll	≥ 100 mm
1.1.4	Type	3 Roll design Pyramid Shape
1.1.5	Motor Power	≥ 2 HP
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Service Tool Kit	1 Set
1.2.2	Spare V Belts	1 Set
1.2.3	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>1.3</b>	<b>Colour: Standard</b>	
<b>1.4</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> <ul style="list-style-type: none"> <li>• Please indicate the detailed <b>list of spares in Technical bid without price.</b></li> <li>• Please indicate the detailed <b>list of spares with individual prices in Commercial bid only.</b></li> </ul>	
<b>1.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.5.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg	
1.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.5.3	Set of anti vibration mounting pads / Foundation bolts with leveling plates - 1 set	

**Lot 12 – Profile Projector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Item : Profile Projector		Qty : 1 no.	
Ref. No. Sl. No. 51 of Annex 6			
Sl.No.	Description	Brief Specifications	Qty
1	<b>Horizontal Profile Projector</b> with all standard accessories and Electricals suitable for 1 phase 230V 50Hz AC.		<b>1</b>
2	<b>Major specifications</b>		
2.1	Configuration	Horizontal light path, Vertical screen, Table model	
2.2	Magnification	10X, 25X, 50X	
2.3	Screen dia / specification	400 mm. Opaque glass screen with 90 <sup>0</sup> cross lines. Screen fitted with rotary encoder, Resolution 0.01 degree	
2.4	Profile illumination	24 V 150W Halogen lamp	
2.5	Magnification Accuracy- Diascopic	0.05%	
2.6	Magnification Accuracy- Episcopic	0.1%	
2.7	Table size	400 X 200 mm	
2.8	X Axis Traverse	200 mm	
2.9	Y Axis Traverse	100 mm	
2.10	Focussing Traverse	50 mm	
2.11	Measurement	Linear Scale	
2.12	Measurement System	Scales- DRO with rotary encoder for X,Y radius & angle measurements	
2.13	Colour	Standard	
3	<b>Required Features / Accessories</b>		
3.1	Hand tools kit		1
3.2	V Blocks with clamps and centers with tenons in T slot of the work table of the projector having center height 150 mm & b/w centers 300 mm		1 set
3.3	Precision vice		1
3.4	Comparison chart set		1 set
3.5	Operation Manual		3 sets
3.6	Recommended spares for 2 years of normal operation		1 set

**LOT 13 - Tool Presetter with DRO & Projector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.			
Ref No. Sl. No. 14 of Annex 6		Quantity: 1 No	
Sl. No.	Item	Brief Specification	Quantity
1	<b>Tool Presetter with DRO &amp; Projector</b> with all standard and required accessories suitable for 1Ph, 230V, 50Hz, AC supply.		1
	<b>Major specifications</b>		
1.1	Measuring Range X axis	0-300 mm	
1.2	Measuring Range Z axis	0-400 mm	
1.3	Spindle Taper	BT 40	
1.4	Spindle accuracy	0.002 mm	
1.5	Resolution X axis	0.001 mm	
1.6	Resolution Z axis	0.001 mm	
1.7	Checker dial X axis	0.005 mm	
1.8	Checker dial Z axis	0.010 mm	
1.9	Tool clamp	Mechanical / Pneumatic, Horizontal / Vertical	
1.10	Colour of machine	Dual Colour : Soft Grey (RAL 7035) and Himmel Blue (RAL 5015) Polyurethane Paint	
2	<b>Required Accessories / Spares</b>		
2.1	Spindle	Mounted on high precision angular contact bearings	
2.2	Axes	LM Guideways with provision to clamp and fine adjustment. Bellows for the LM guideways	
2.3	Scales & DRO	From Reputed Brand having resolution 0.001 mm	
2.4	Projector	From Reputed Brand, 10X Magnification on 100 mm screen. Direct projection of tool.	
2.5	Test Mandrel	BT 40 with diameter and length engraved/etched	
2.6	Table	Table with leveling screws having suitable height to place and operate the equipment and provision to store the accessories under lock and key.	
2.7	Set of Operation & Maintenance Manuals – 3 nos / machine		1 set
3	Set of spare recommended for two years normal operation of machine. (Itemwise quantity with price to be provided)		1 set
4	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint - 1/2 litre each colour in airtight sealed containers, Paint brush ½” 1 no. for each colour</li> <li>• Initial fill of Hydraulic/Lubrication Oil, if any in separate sealed containers.</li> <li>• Cotton waste- 2 kg, Cora cloth – 5 Mtrs</li> <li>• Set of anti vibration pads/Foundation bolts and leveling plates.</li> </ul>	

**Lot-14 (1) Mechanical Guillotine Shear:**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar		
Item : Mechanical Guillotine Shear		
Ref No. SI No 1 of Annex 9		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>1.</b>	<b>Mechanical Guillotine Shear</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50cy AC supply and control Voltage 230V, 1 phase AC supply.	<b>1</b>
<b>1.1</b>	<b>Technical Specifications :</b>	
1.1.1	Cutting capacity of MS Material (Length x Thickness)	2000 mm x 3 mm ( Should have a capacity to shear from 0.5 mm to 3 mm plates)
1.1.2	Table height x width	900 x 450 mm ± 5 %
1.1.3	No. of strokes (Min)	50
1.1.4	Depth of Throat (Min)	75 mm
1.1.5	Front gauge	600 mm ± 5 %
1.1.6	Rear gauge	750 mm ± 5 %
1.1.7	Motor power	≥ 5 Kw
<b>1.2</b>	<b>Accessories:</b>	
1.2.1	Automatic lubrication system	1 No.
1.2.2	Clutch key	1 No.
1.2.3	Spring for clutch housing	1 No.
1.2.4	Cutting blade	2 Sets.
1.2.5	Clutch ring	1 pair
1.2.6	Machine lamp (Halogen)	1 No.
1.2.7	Additional set of blades	1 set
1.2.9	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>1.3</b>	<b>Colour: Standard</b>	
<b>1.4</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> <ul style="list-style-type: none"> <li>• Please indicate the detailed <b>list of spares in Technical bid without price.</b></li> <li>• Please indicate the detailed <b>list of spares with individual prices in Commercial bid only.</b></li> </ul>	
<b>1.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.5.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg	
1.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.5.3	Set of anti vibration mounting pads / Foundation bolts with leveling plates - 1 set	

**Lot-14 (2) Hydraulic Press Brake**

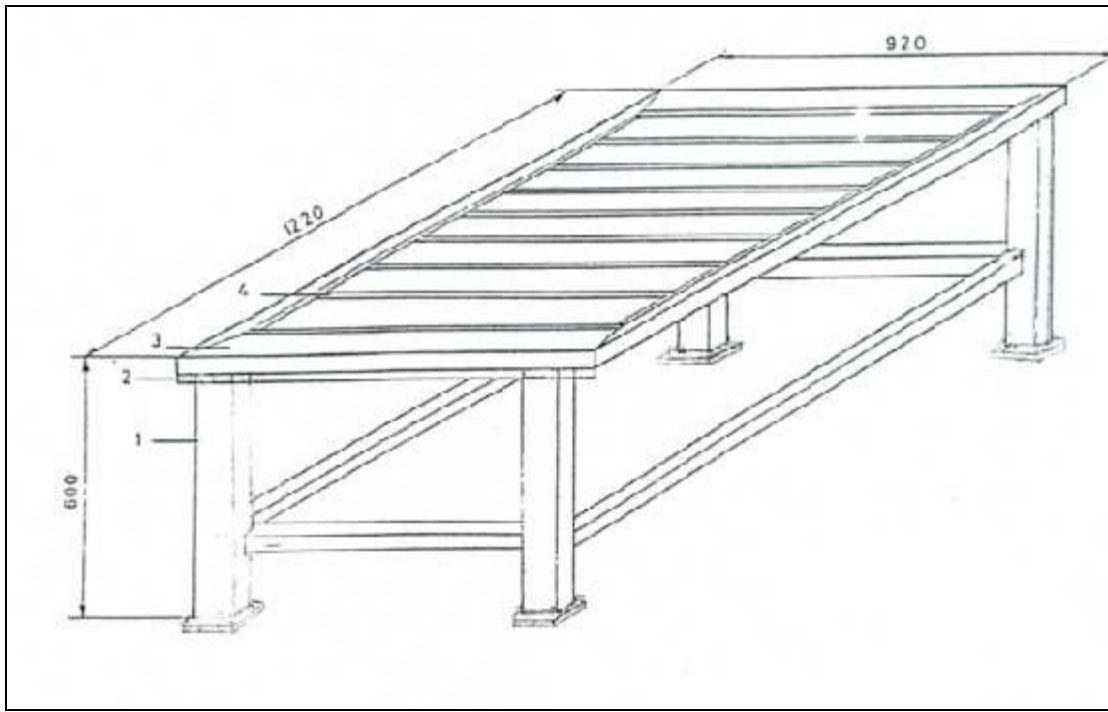
Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar		
Item: Hydraulic Press Brake		
Item Ref No. SI No. 2 of Annex 9	Qty : 1 No.	
Sl. No.	Description	Qty
<b>1</b>	<b>Hydraulic Press Brake of 50T</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50 Hz AC supply suitable for inching, single stroke and Auto Operation.	1
<b>1.1</b>	<b>Major specifications</b>	
1.1.1	Bending capacity of MS Material (Length x Thickness)	2000 x 3 mm
1.1.2	UTS of MS Material	45 Kg/mm <sup>2</sup>
1.1.3	Table size	≥ 170 x 2000 mm
1.1.4	Tonnage	50 T
1.1.5	Motor power	≥ 3.5 Kw
1.1.6	Clear passing	≥ 1500 mm
1.1.7	Ram stroke	≥ 100 mm
1.1.8	Open height	275 mm ± 5%
1.1.9	Closed height	180 mm ± 5%
1.1.10	Depth of throat	200 mm ± 5%
1.1.11	Approach / Return speed	≥ 45 mm/sec
1.1.12	Pressing speed	6 mm / sec ± 5%
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Press gauge	1 No.
1.2.3	Machine Lamp (Halogen)	1 No.
1.2.4	Electrical control motor with inching/auto mode	1 set.
1.2.5	Foot switches	1 pair
1.2.6	Lifting links	1 pair
1.2.7	Sheet supports	1 pair
1.2.8	Fin stroke adjustment rod with limit switches	1 set
1.2.9	Manual back gauge with fine setting	1 set
1.2.10	5 Way die stock and "V" punch	1 No.
1.2.11	Centralised lubrication system with hand pump	
1.2.12	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>1.3</b>	<b>Colour: Standard</b>	
<b>1.4</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> <ul style="list-style-type: none"> <li>• Please indicate the detailed list of spares in Technical bid without price.</li> <li>• Please indicate the detailed list of spares with individual prices in Commercial bid only.</li> </ul>	
<b>1.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
1.5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
1.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.5.3	Mounting bolts - 1 set	
1.5.4	Initial fill of required qty of hydraulic oil	

**LOT - 15 CNC Coil Winding Machine**

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : Coil Winding Machine		
Item Ref No. SI No. 2 of Annex 9		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>2</b>	<b>Coil Winding Machine</b> – Manual, Suitable for Winding Motor, Transformer and Ceiling Fan Coils with all standard and required accessories suitable for 230V, 1Ph, 50Hz AC supply.	<b>1</b>
<b>2.1</b>	<b>Major specifications</b>	
2.1.1	Wire range	18-46 SWG
2.1.2	Winding width	300 mm
2.1.3	Bobbin swing	200 mm
2.1.4	Power of Drive Motor	0.5 HP
2.1.5	Speed range	5-1800 rpm
2.1.6	Positioning accuracy of traverse	+/- 0.01 mm
<b>2.2</b>	<b>Accessories</b>	
2.2.1	Display	Digital
2.2.2	Key board	Matrix keyboard with status indication
2.2.3	Dereeler with tensioner	
2.2.4	Tailstock	
2.2.5	Power cord	
2.2.6	Variable speed foot switch	
2.2.7	Type 16 Bobbin for Transformer with holding devices - Suitable for Motor Coil Winding – 1 No. - Suitable for Ceiling Fan Coil Winding – 1 No. - Suitable for Type 16 Transformer Winding – 1 No.	100
2.2.8	Mandrels (Suitable for the above bobbins)	3
2.2.9	Enameled Copper Wire - 36 SWG	3 Kg
2.2.10	Enameled Copper Wire - 18 SWG	3 Kg
2.2.11	Enameled Copper Wire - 22 SWG	3 Kg
2.2.12	Enameled Copper Wire - 32 SWG	3 Kg
2.2.13	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>2.3</b>	<b>Colour:</b> Standard	
<b>2.4</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> Please indicate the detailed list of spares with individual prices	
<b>2.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
2.5.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
2.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
2.5.3	Set of anti vibration mounting pads / Foundation bolts with leveling plates - 1 set	

**LOT 16 Shop Furniture (1)- Arc Welding Table**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
<b>Description: Arc welding Table</b>	
Annexure Ref.9 / Sl.No. 75	Qty 1 No.



**ARC WELDING TABLE:**

Size of Table : 1220mm Length x 920mm Width x 600mm Height  
 Paint & colour : Polyurethane Apple Grey Green (AGG) Painting

**Items:**

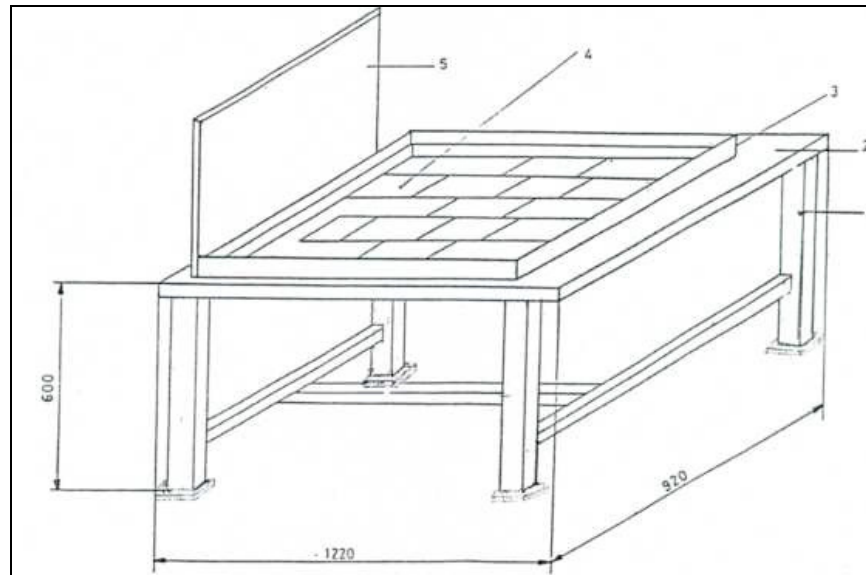
1. M.S. Rectangular pipe 100 x 50 mm, 4mm thick
2. M.S. Plate 10 mm thick
3. M.S. Angle frame 50 x 50 x 6 mm
4. M.S. Cross Flats 5 x 45 mm

Metallic shoes for the legs to be provided.



**Lot 16 (2) - Gas Welding Table**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
<b>Description: Gas Welding table</b>	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 9 / Sl.No. 76	1



**GAS WELDING TABLE:**

Size of Table : 1220 mm Length x 920mm Width x 600mm Height

Paint & colour : Polyurethane Apple Grey Green (AGG) Painting

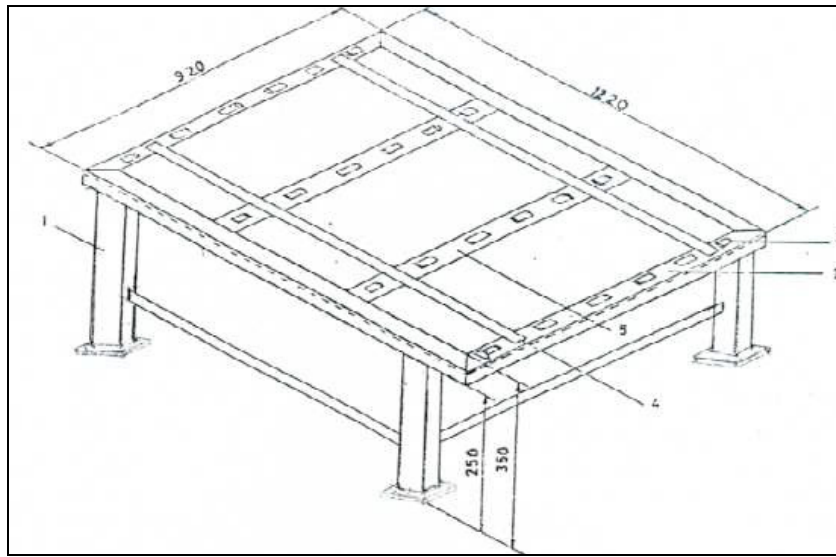
**Items:**

1. M.S. Rectangular pipe 100 x 50 mm, 4mm thick
2. M.S. Base Plate 10 mm thick
3. M.S. Box 1000 mm Length x 750 mm width x 8 mm thick
4. Fire Bricks 115mm length x 58 mm width x 38 mm thick (Each) as per IS – 6 standard.
5. M.S. Plate 700mm Length x 400mm Height x 10mm thick

Metallic shoes for the legs to be provided.

**Lot 16 (3) - Gas Cutting Table**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
<b>Description: Gas Cutting Table</b>	
Annexure Ref.9 / Sl.No. 77	Qty 1 No.



**GAS CUTTING TABLE:**

Size of Table : 1220mm Length x 920mm Width x 350 mm Height  
 Paint & colour : Polyurethane Apple Grey Green (AGG) Painting

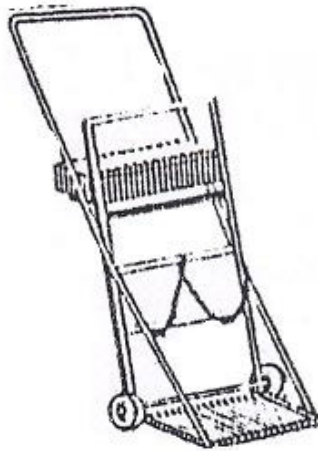
**Items:**

1. M.S. Rectangular pipe 100 x 50 mm, 4mm thick
2. M.S. Angle frame 100 x 100 x 6mm
3. M.S. Angle guide 75 x 6 mm
4. M.S. Flat 100 x 40 mm inserts
5. M.S. Flat 100 x 6 mm

Metallic shoes for the legs to be provided

**Lot 16 (4) - Gas Cylinder Trolley**

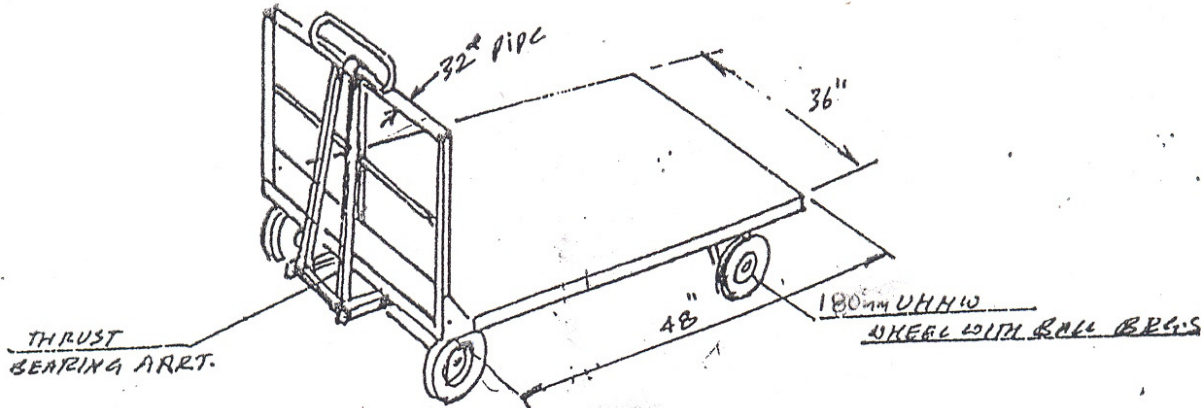
Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: Gas Cylinder trolley/truck two wheel type	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 9 / Sl.No. 73	2
Annexure Ref.4 / Sl.No. 102	2
<b>Total</b>	<b>4</b>



Major Specifications	
<b>Dimension</b>	24 inches width X 48 inches height
<b>No. of cylinders</b>	2 nos.(Oxygen & Acetylene)
<b>Wheels</b>	2 nos. with suitable solid rubber wheels
<b>Chains</b>	2 chains to fasten two cylinders
<b>Tool box</b>	To store tools
<b>Safety features</b>	As per IS:8016:1996
<b>Paint</b>	Powder coated / PU yellow
<b>Spares</b>	Recommended spares for 2 years of normal operation
<b>Dimension</b>	24 inches width X 48 inches height
<b>No. of cylinders</b>	2 nos.(Oxygen & Acetylene)
<b>Wheels</b>	2 nos. with suitable solid rubber wheels
<b>Chains</b>	2 chains to fasten two cylinders
<b>Set of Spares</b>	Trolley Wheel (2 Pcs)

**Lot 16 (5) - Hand Trolley**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
<b>Description: HAND TROLLEY</b>	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 6 / Sl.No.89	5



- Capacity :1 T
- Trolley size :48 inches length X 36 inches width
- Height of trolley platform from floor:Approx. 280 mm
- Wheels :4 nos UHMW material wheels of 180 mm diameter fitted with sealed ball bearing
- Type of wheels :2 nos wheels fixed type and 2 nos wheels swivel type
- Height of trolley :40 inches (Floor to handle bar)
- Platform Top :25 mm thick silver oak wood fitted on suitable angle frame
- Back frame :32 mm dia ERW pipe
- Paint :PU / Powder Coated yellow
- Spares :Recommended spares for 2 years of normal operation
- Handle :To be used for Pull & Push with lock

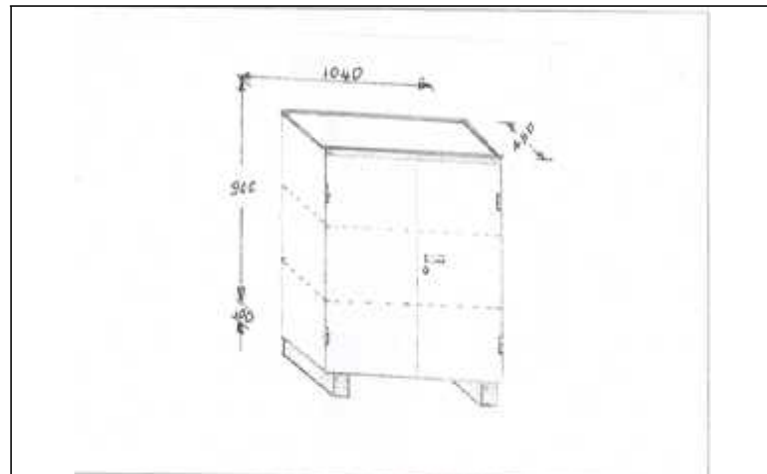
**Features:**

Handle to be mounted on swivel plate mounted on thrust bearings and connected to rear wheel axle

Note: UHMW – Ultra High Molecular Weight  
ERW – Electric Resistance Weld

**Lot 16 (6)- Machine Side Cabinet**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: MACHINE SIDE CABINET	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 1 / Sl.No.25	5
Annexure Ref. 5 / Sl.No.93	20
Annexure Ref. 6 / Sl.No.102	17
TOTAL	42



**MACHINE SIDE CABINET:**

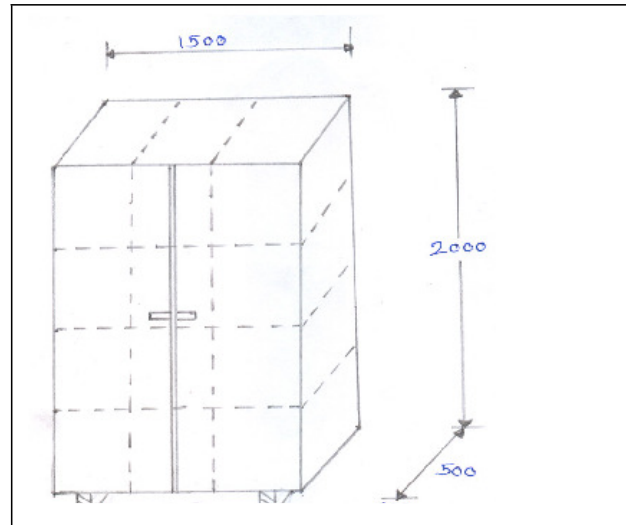
- ☑ Size of Cabinet : 1040mm Length x 450mm Breadth x 900mm Height
- ☑ Leg height: 100mm
- ☑ Sheet thickness for cabinet : MS steel CRCA sheet 20 SWG
- ☑ Sheet thickness for back of the cabinet : MS steel CRCA sheet 21 SWG
- ☑ Sheet thickness for shutter & shelf : MS steel CRCA sheet 19 SWG
- ☑ Door : Hinged type (2 nos. on each door)
- ☑ No. of shelves : 3 (300mm height in each compartment)

**Features:**

- Quality lock & handle door
- Powder coated colour - soft grey
- Rubber mat 3.5mm thick firmly positioned on top of the cabinet

**Lot 16 (7)- Storage Cabinet**

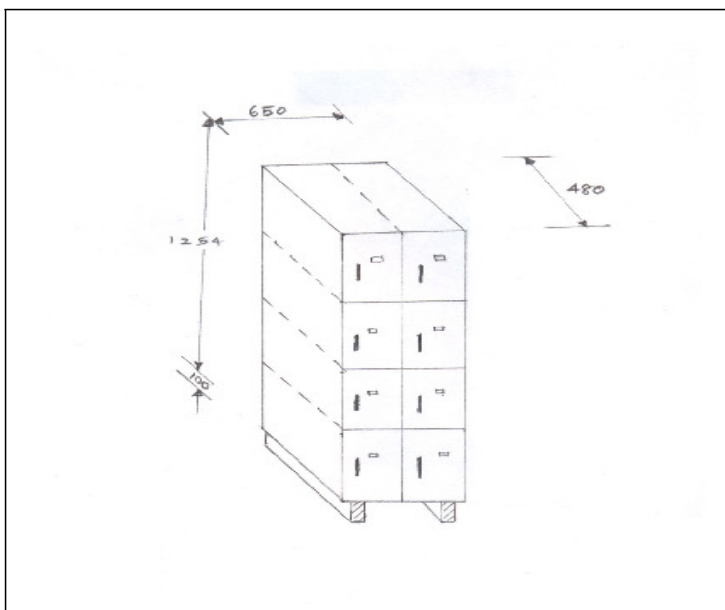
Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: STORAGE CABINET	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 8 / Sl.No. 131 –Equipment storage cabinet	2
Annexure Ref. 8 / Sl.No. 129 – Material storage cabinet	2
Annexure Ref. 8 / Sl.No. 130 – Tool storage cabinet	2
<b>TOTAL</b>	<b>6</b>



Size: 2000mm H x 1500mm W x 500mm D of Prime quality CRCA steel  
 Legs Height 100mm  
 All sides, Top, Bottom & Backside to be of 18 SWG  
 Inside horizontal partition – 16 SWG  
 Inside vertical partition – 20 SWG  
 Minimum load bearing capacity-50Kg in each cabin  
 Seven lever Lock to be provided with set of 2 stainless steel keys.  
 Double folded type hinges with stainless steel cotter pins to be provided  
 Colour: Power coating colour grey

**Lot 16(8)- Personal Locker**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: PERSONAL LOCKERS	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 2 / Sl.No.52	3
Annexure Ref. 6 / Sl.No.126	3
Annexure Ref. 1 / Sl.No.24	3
Annexure Ref. 3 / Sl.No.31	3
Annexure Ref. 4 / Sl.No.149	2
Annexure Ref. 5 / Sl.No.92	3
Annexure Ref. 8 / Sl.No.169	3
Annexure Ref. 9 / Sl.No.83	3
Annexure Ref. 7 / Sl.No.145	3
<b>TOTAL</b>	<b>26</b>



**PERSONAL LOCKERS:**

Size: 650mm L x 480mm W x 1354mm H

No. of Columns: 2

No. of rows: 4

8 nos. independent lockers with locking facility for each locker

Sheet thickness for locker: MS steel CRCA sheet 20 SWG

Sheet thickness for back of the locker: MS steel CRCA sheet 21 SWG

Sheet thickness for shutter & shelf: MS steel CRCA sheet 19 SWG

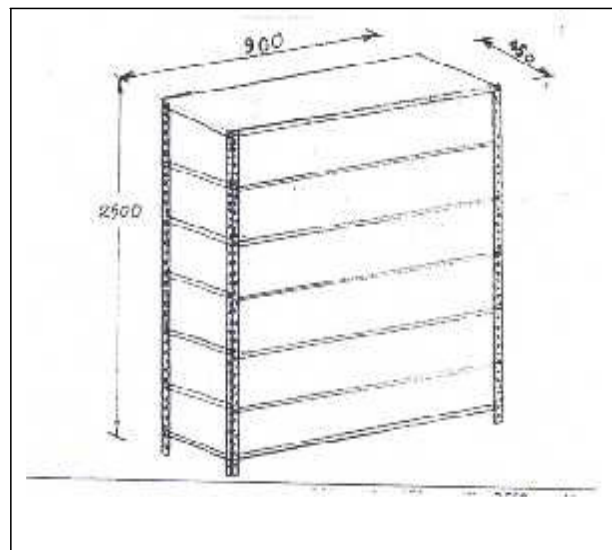
Door: Hinged type

Colour: Powder coated soft grey

Provision for fixing name slip

**Lot 16(9)- Slotted Angle Rack**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: Slotted Angle Rack	
Agreement Ref. / Sl.No.	Qty
Annexure Ref.1 / Sl.No.23	4
Annexure Ref.2 / Sl.No.49	4
Annexure Ref.3 / Sl.No.38	6
Annexure Ref.5 / Sl.No.91	4
Annexure Ref.6 / Sl.No.100	4
Annexure Ref.7 / Sl.No.152	4
Annexure Ref.8 / Sl.No.176	6
Annexure Ref.9 / Sl.No.85	4
Annexure Ref.4 / Sl.No.196	2
<b>TOTAL</b>	<b>38</b>



**SLOTTED ANGLE RACK:**

- Size : 900 mm Length x 450 mm Width x 2500 mm Height
- No of shelves : 7
- Angles dimension : 40mm x 40mm x 2.5mm thick
- Shelf sheet thickness : 16 SWG

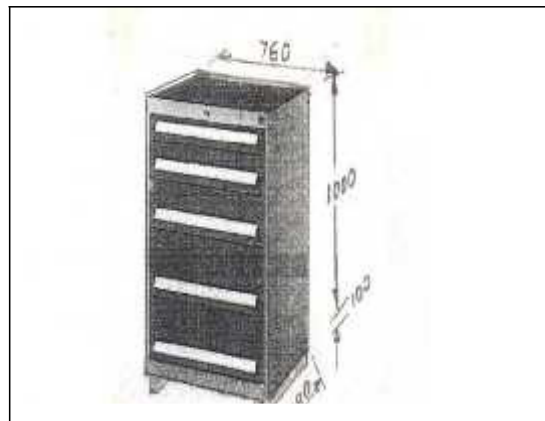
**Features:**

- Corner plate (Gusset) to be provided on top & bottom for additional strength and stability of the slotted angles when fixed.
- Provision for 6 compartments
- Foot plates to be provided
- Bottom 3 shelves in each slotted angle rack to be provided with 3.5mm rubber sheets
- Powder coated – AG
- Provision for clamping the rack to the wall



**Lot 16(10)- Tool Storage Cabinet**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
Description: Tool storage cabinet	
Agreement Ref. / Sl.No.	Qty
Annexure Ref.6 / Sl.No. 90	2
Annexure Ref.5 / Sl.No. 94	4
Annexure Ref.6 / Sl.No. 101	8
<b>TOTAL</b>	<b>14</b>



**TOOL STORAGE CABINET:**

- Cabinet Size : 760 mm Length x 680 mm Width x 1000 mm Height
- Leg height : 100 mm
- Sheet thickness for cabinet : MS steel CRCA sheet 20 SWG Top &
- Bottom of cabinet : MS steel CRCA sheet 18 SWG
- Stiffeners : MS steel CRCA sheet 16 SWG
- Drawer fascia : 1 x 50, 1 x 100, 1 x 150, 2 x 300 mm
- Drawer size : 600 x 600 x 37 – 1 nos & 600 x 600 x 87 – 4 nos
- Sheet thickness for drawers : MS steel CRCA sheet 21 SWG
- Sheet thickness for fascia : MS steel CRCA sheet 18 SWG
- Sheet thickness for Channels : MS steel CRCA sheet 13 SWG
- Partition of each drawer : 597 x 35 – 1 no & 597 x 85 – 4 nos
- Drawers load carrying capacity : 100 kg
- Drawer usable size : 620 x 600mm
- Handles : Aluminium extruded – 600 mm with integral label holder & protected with plastic covers

**Features**

- Partition in each drawer of MS steels 18 SWG with profile on both sides
- Each drawer is provided with two full width, one 215 mm, two 175 mm dividers and two 115 mm dividers to make required divisions at a pitch of 20 mm
- Central locking system with push lock one each per cabinet
- All drawers run on special ball bearings
- Easy flexible divider system
- Anti – tilt mechanism
- Powder coated –Cabinets – Polyurethane grade Grey colour
- Rubber mat 3.5 mm thick firmly positioned on top of the cabinet

**Lot 16(11)- Workshop Stool**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
<b>Description: OPERATOR/WORKSHOP STOOL</b>	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 2 / Sl.No.12	20
Annexure Ref. 1 / Sl.No.17	20
Annexure Ref. 3 / Sl.No.32	20
Annexure Ref. 5 / Sl.No.85	20
Annexure Ref. 6 / Sl.No.122	20
Annexure Ref. 7 / Sl.No.146	20
Annexure Ref. 8 / Sl.No.170	20
Annexure Ref. 9 / Sl.No.74	20
<b>TOTAL</b>	<b>160</b>



**WORKSHOP STOOLS:**

- Size : Dia 12 inches
- Height : 20 inches

**Features:**

- Diameter 12 inches & height 20 inches, high counter rotating stool with form fabric seat & chrome plated frame
- Rubber shoes to be provided to the legs
- Provide reinforcement of round rings inside & outside the 4 legs.
- Colour of seat - Maroon

**Lot 17(1)- Computer table with Chair**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
Description: COMPUTER TABLE WITH CHAIR SET	
Agreement Ref. / Sl. No.	Qty
Sl. No. 7 of Annex 1	22
Sl. No. 20 of Annex 6	22
Sl. No. 12 of Annex 10	22
TOTAL QTY	66



**COMPUTER TABLE:**

- Size: 900mm Length x 600mm Width x 800mm Height

**Features**

- Compressed wood / Particle wood / Bhutan board, 800mm L, Full depth key board & mouse tray retractable with caster wheels
- Cabinet for housing CPU with open front & rear at right side
- Shelves with 3 nos. drawer on left side with lock
- Colour: Pine wood

**COMPUTER CHAIR:**

- Height adjustable computer chair with butter fly pushback with nylon base
- Normal tilt mechanism with locking facility
- High density pre moulded foam
- Polywire fabric upholstery
- Pneumatic height adjustment
- Ergonomic seating
- PU soal soft arms

**Lot 17(2)- Cupboard – Major**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: CUPBOARD (MAJOR)	
Agreement Ref. / Sl. No.	Qty
Annexure 1/20	4
Annexure 2/46	5
Annexure 3/35	4
Annexure 5/88	4
Annexure 7/149	2
Annexure 8/173	4
Annexure 9/81	4
Annexure 4/147	2
Annexure 6/120	4
<b>TOTAL QTY</b>	<b>33</b>



**CUP BOARD (MAJOR):**

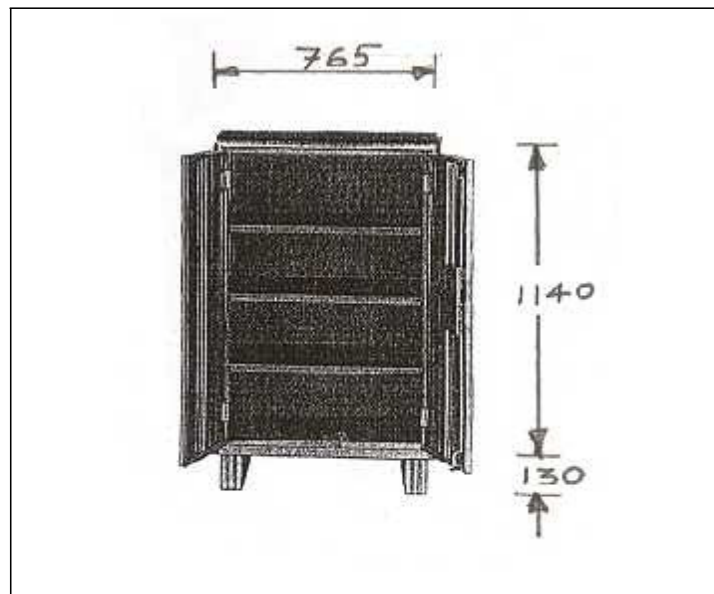
- Size : 915 mm Length x 485 mm Breadth x 1980 mm Height
- Leg height : 130 mm
- Sheet thickness : MS steel CRCA sheet 19 SWG
- Sheet thickness for back side : MS steel CRCA sheet 20 SWG
- Sheet thickness for door & shelf : MS steel CRCA sheet 18 SWG
- Door : Hinged type (3 nos on each door)
- No of shelves : 5 (396mm height in each compartment)

**Features:**

- Quality locks & handle for door
- Powder coated – MJ Grade, drawers in deep blue, cupboard in AG.

**Lot 17(3)- Cupboard – Minor**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: CUPBOARD (MINOR)	
Agreement Ref. / Sl. No.	Qty
Annexure 1/21	4
Annexure 2/47	5
Annexure 3/36	4
Annexure 4/148	2
Annexure 5/89	4
Annexure 7/150	2
Annexure 8/174	4
Annexure 9/82	4
Annexure 6/121	4
TOTAL QTY	33



**CUP BOARD (MINOR):**

- Size : 765 mm Length x 440 mm Breadth x 1270 mm Height
- Leg height : 130 mm
- Sheet thickness : MS steel CRCA sheet 20 SWG
- Sheet thickness for back side : MS steel CRCA sheet 21 SWG
- Sheet thickness for door & shelf : MS steel CRCA sheet 19
- SWG Door : Hinged type (2 nos on each door)
- No of shelves : 4 (318mm height in each compartment)

**Features:**

- Quality locks & handle for door
- Powder coated – MJ Grade, drawers in deep blue, cupboard in AG.

**Lot 17(4)- Instructor chair**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: INSTRUCTOR CHAIR	
Agreement Ref. / Sl. No.	Qty
Annexure 1/19	1
Annexure 2/45	2
Annexure 3/34	1
Annexure 4/152	1
Annexure 5/87	1
Annexure 7/148	1
Annexure 8/172	1
Annexure 9/80	1
Annexure 6/124	1
TOTAL	10



**INSTRUCTOR CHAIR:**

- Height adjustable high back chair with butter fly pushback with nylon base.
- High density pre moulded foam.
- Polywire fabric upholstery.
- Pneumatic height adjustment.
- Ergonomic seating.
- PU soal soft arms.
- Upholstered with high density soft foam & art leather.

**Lot 17(5)- Instructor Table**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
Description: INSTRUCTOR TABLE	
Agreement Ref. / Sl. No.	Qty
Annexure 1/18	1
Annexure 2/44	2
Annexure 3/33	1
Annexure 4/151	1
Annexure 5/86	1
Annexure 6/123	1
Annexure 7/147	1
Annexure 8/171	1
Annexure 9/79	1
<b>TOTAL</b>	<b>10</b>



**INSTRUCTOR TABLE:**

- Size: 1500mm L x 800mm W x 760mm H

**Features:**

- Compressed wood / Particle wood / Bhutan board
- 3 Drawers on left side with handle
- Half mat (length-wise) on table top
- Cable Cap on both ends of the Table top
- Color: Jackwood

**Lot 17(6)- Cutting & Ironing Table**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description : Table – For Cutting & Ironing	
Agreement Ref. / Sl. No.	Qty
Sl. no 11 of Annex 2	5
Sl. no 14 of Annex 2	2
Total	7



Specification:

Size	:6' x 6'
Height	:30"
Material	: Akasia/Jackwood
Size of legs	: 75 x 75 mm (Dismantable)
Table Top	: Hard wood 25 mm thick, edges round off at R25 mm
Reinforcement planks	: On all sides 125 mm Depth & 50 mm thick
Drawers	: Two nos on each side with handles 500 mm dp

- ❖ All sides protruding out by 50 mm
- ❖ Plastic bushes at the bottom of each leg
- ❖ Touch wood polished, - Teak wood colour

**Note: Legs are to be dismantled during packing and reassembled at customer site.**



**Lot 17(7)- LECTURE CHAIR**


<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
Description: LECTURE CHAIR	
Agreement Ref. / Sl. No.	Qty
Annexure 2/15	20



**Lecture chair: specification**

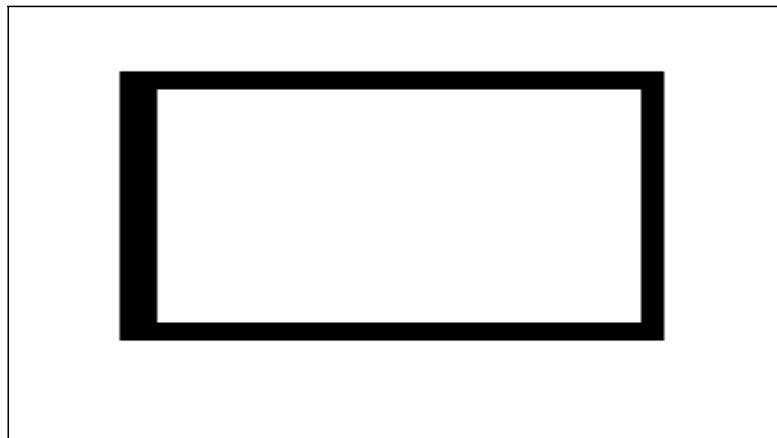
- Cushion seat and back
- Half writing flip over pad made out of 18mm pre laminated board with teak wood beading
- Underseat storage - mesh
- Frame finished in powder coating (Colour: soft grey), Polyurethane grade, make: Nerolac / Marpol
- Metal frame made out of ¾" round pipe of 18 SWG steel
- Seat and back upholstered in fabric – colour Maroon.
- Rubber Shoes on legs

**Lot 17(8)- Visitor Chair**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: <b>Visitor Chair</b>	
Agreement Ref. / Sl. No.	Qty
Annexure 2/16	6
<p>Cushion chairs with cushion seat and PP back                      Upholstered in good quality fabric                      Mounted on metal legs                      Frame finished in powder coating (Colour: Maroon), Polyurethane grade,                      Make: Cello/Neelkamal                      With bottom support for seat                      With Handle.                      Rubber Pads at the bottom</p> 	

**LOT 17 (9) – White Board**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: WHITE BOARD	
Agreement Ref. / Sl. No.	Qty
Annexure 1/22	1
Annexure 2/43	1
Annexure 5/90	1
Annexure 6/125	1
Annexure7/151	1
Annexure 9/84	1
<b>TOTAL</b>	<b>5</b>



**WHITE BOARD:**

- White board – Magnetic
- Size: 6 feet Long x 4 feet width

**Features**

- Magnetic white board with all accessories like pen set, duster, clamps etc.
- Eye hooks at the rear to fix to the wall

**LOT 17 (10) Inspection Table with Light**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>	
Description: INSPECTION TABLE WITH LIGHT	
Agreement Ref. / Sl. No.	Qty
Annexure 6/93	2



**Specification:**

Table Top	1500 L x 1000 W x 750 H mm Table Top Single Piece Polished Granite Black colour 25 mm thick seated properly on angle iron 32 x 32 x 6 mm with sufficient reinforcement to support the granite. All edges are rounded off and corners rounded off R25 mm. Table top protruding out on all sides by 50 mm. Table top in line with angle iron.
Table Legs	Made of 50 mm square hollow MS pipes 2 mm thick with rubber shoes. Reinforcement on all four sides by 20 mm MS square hollow pipe 2 mm thick to hold the enclosure, open in the front.
Light Arrangement	At a height of 1900 MM, Twin Fluorescent Lamp 40W, 1Ph, 230 V, 1200 mm long with reflectors and positioned to ensure proper lighting on the table surface. All wires are to be concealed and running in conduit. Lighting arrangement in CKD condition
Enclosure	An enclosure to a height of 300 mm of 16 SWG SS 304 sheet. Bottom of the enclosure made of 16 SWG SS 304.
Paint	Powder coated – Soft Grey Colour.- RAL 7035

**LOT 17 (11) Plastic Bin Stand with Bins**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar			
Description: Plastic Bin Stand		Plastic Bins	
Agreement Ref. / Sl. No.	Qty	Agreement Ref. / Sl. No.	Qty
Annexure 5/96	4	Annexure – 8/179	16
Annexure 7/154	4	Annexure – 2/51	16
Annexure 8/178	2	Annexure- 7/153	280
Annexure 1/27	2	Annexure - 8/177	140
Annexure 3/40	2	Annexure - 6/99	70
		Annexure - 5/95	280
		Annexure 1/26	140
		Annexure 3/39	140
<b>TOTAL</b>	<b>14</b>	<b>TOTAL QTY</b>	<b>1082</b>

Sl.No	Description	Dimension	Qty	Colour	Load Capacity
1.	Large	178 W x 290 D x143 H mm	150	Red	20 kgs each
2.	Big	130 W x 220 D x125 H mm	180	Green	15 kgs each
3.	Medium	100 W x 170 D x 85 H mm	480	Grey	10 kgs each
4.	Small	100 W x 125 D x 60 H mm	272	Yellow	5 kgs each



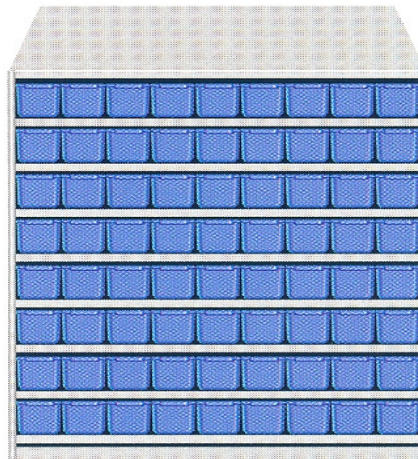
**Plastic Bins –Polypropylene copolymer make to suite bin stand**

**Bin Stand:**

- Overall Dimension- 970 L x 600 B x 1100 H mm
- Shop Floor trolley, double sided
- Base unit with aluminium chequered top plate
- Castor wheels with brakes
- 4 nos panels on which bins to be fitted on each side
- Robust construction
- Epoxy powder coated – Colour light Grey
- Easy assembly
- Push – pull handles on both sides
- Large bins – 5 nos on each side
- Big bins – 6 nos on each side
- Medium bins – 8 nos on each side in 2 rows
- Small bins – 8 nos on each side

**LOT 17 (12) SHELVING UNIT**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: SHELVING UNIT	
Agreement Ref. / Sl. No.	Qty
Annexure 2/50	2
Shelving Unit size	1275 L x 900 H x 400 D mm
Roll post	2 nos each unit
Back plate	1 set each unit
Kick plate	1 no. each unit
No. of shelves	9 nos ( 8 rows of Bins) each unit
No. of Bins in each shelve	9 nos of size 415 D x 100 L x 110 H mm (With dividers) each
Total Bins	72 nos each unit
Total UDL capacity	>500 kgs each unit
Colour	Blue



LOT 17 (13) SCRAP BIN

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: SCRAP BIN	
Agreement Ref. / Sl. No.	Qty
Annexure 5/98	4
Annexure 9/88	4
Annexure 2/48	2
Annexure 1/28	2
TOTAL	12



**Features**

- Qty – 8 nos.
- Material – High Density polyethylene
- Interior - Smooth
- Volume –120 litres
- Top O.D – 485(L) x 510(B) mm Bottom O.D – 340(L) x 380(B) mm Height - 950 mm
- Wall Thickness – 4mm
- Colour – Green / Blue
- Accessories – Wheels, Handle & lid

**Lot 18 (1) – Cast Iron angle plate with T – slots**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Sl. No. 78 of Annexure - 4		Qty:2 nos.
Ref No. Sl. No. 88 of Annexure - 6		Qty:2 nos.
Ref No. Sl. No. 40 of Annexure - 5		Qty:2 nos.
<b>Total</b>		<b>6 Nos.</b>
Sl. No.	Item	Brief Specification
<b>Cast Iron angle plate with T – slots</b>		
1	<b>Major specifications:</b>	
1.1	Size	250 x 250 x 150 mm
	Material	Good quality, close grained with high density alloyed Cast Iron casting conforming to FG 220 as per IS –210 - 1993
1.2	Type	Both sides slots for M10
1.3	Flatness accuracy	8 Microns
1.4	Specification	As per IS 2554 – 1995
1.5	Squareness of Exterior faces	15 Micron
1.6	Squareness of End faces	18 Micron
1.7	Parallality	18 Micron
1.8	Hardness	Between 170 to 220 BHN
2	<b>Requirement</b>	
2.1	Well ribbed to minimize distortion.	
2.2	Stress relieved to relieve internal stresses.	
2.3	T slots conforming to IS.	
2.4	Provide “I” Bolt at the point of center of gravity for easy handling.	
2.5	OKS-CORTEC VCI 369N - Rust preventive coating to be applied on scrapped surface.	

**LOT - 18 (2) Granite Surface plate with stand**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Sl. No. 53 of Annexure - 6		Qty: 2 no
Sl. No.	Item	Brief Specification
	<b>Surface Table with Stand:</b> Surface Table, <b>Granite make</b> with dismantle type MS stand with leveling facility.	
1	<b>Major specifications</b>	
1.1	Size	1000 L x 1000 W mm
	Material	Good quality, close grained uniform textured, hard and wear resistant <b>Granite Surface Plate.</b>
1.2	Grade	0
1.3	Flatness accuracy	5 Microns
1.4	Specification	As per IS 7327 – 2003
1.5	Protection Cover	Rexine
2	<b>Requirement</b>	
2.1	Lifting facility to be provided for the granite surface table	
3	<b>M S Stand</b>	
3.1	Dismantle type rigid MS stand with flat metal shoes	
3.2	Provision for leveling	
3.3	Total work height including Surface Table – 850 mm	
3.4	Painting – Powder coated – Standard colour	



**LOT - 18 (3) Marking Out table with stand**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar			
Ref No. Sl. No. 76 of Annexure - 7			
Sl. No.	Item	Brief Specification	Quantity
	<b>Marking Out Table with Stand: Cast iron make</b> with dismantle type MS stand with leveling facility.		2
1	<b>Major specifications</b>		
1.1	Size	1000 L x 1000 W mm	
	Material	Good quality, close grained with high density alloyed <b>Cast Iron</b> casting conforming to FG 220 as per IS –210 - 1993	
1.2	Grade	2	
1.3	Table surface	Hand scraped	
1.4	Flatness accuracy	28 Microns	
1.5	Specification	As per IS 2285 – 2003	
1.6	Hardness	Between 170 to 220 BHN	
1.7	Protection Cover	Rexine	
2	<b>Requirement</b>		
2.1	Box type ribbing pattern		
2.2	Stress relieved to relieve internal stresses		
2.3	T slot –1 no 14 H12 at the center		
2.4	Lifting facility to be provided		
2.5	OKS-CORTEC VCI 369N - Rust preventive coating on scrapped surface to be applied		
2.6	Painting other than Table Surface – PU standard colour		
3	<b>M S Stand</b>		
3.1	Dismantle type rigid MS stand with flat metal shoes		
3.2	Provision for leveling		
3.3	Total work height including Surface Table – 850 mm		
3.4	Painting – Powder coated – Standard colour		

**Lot 18(4) – Surface Table with Stand**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No.	Sl. No.	Brief Specification
	53 of Annexure - 5	Qty: 1 no
	59 of Annexure - 6	Qty: 2 nos
	65 of Annexure - 9	Qty: 1 no
<b>TOTAL</b>		<b>5 Nos.</b>
Sl. No.	Item	Brief Specification
<b>Surface Table with Stand: Surface Table, Cast iron make with dismantle type MS stand with leveling facility.</b>		
1	<b>Major specifications:</b>	
1.1	Size	1000 L x 1000 W mm
	Material	Good quality, close grained with high density alloyed Cast Iron casting conforming to FG 220 as per IS –210 - 1993
1.2	Grade	1
1.3	Table surface	Hand scraped
1.4	Flatness accuracy	<b>14 Microns</b>
1.5	Specification	As per IS 2285 – 2003
1.6	Hardness	Between 170 to 220 BHN
1.7	Protection Cover	Rexine
2	Requirement	
2.1	Box type ribbing pattern	
2.2	Stress relieved to relieve internal stresses	
2.3	T slot –1 no 14 H12 at the center	
2.4	Lifting facility to be provided	
2.5	OKS-CORTEC VCI 369N - Rust preventive coating on scrapped surface to be applied	
2.6	Painting other than Table Surface – PU standard colour	
3	<b>MS Stand</b>	
3.1	Dismantle type rigid MS stand with flat metal shoes	
3.2	Provision for leveling	
3.3	Total work height including Surface Table – 850 mm	
3.4	Painting – Powder coated – Standard colour	

**Lot 18(5) – Surface Table with Stand**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar			
Ref No. Sl. No. 77 of Annexure - 4		Qty: 1 no	
Sl. No.	Item	Brief Specification	
	<b>Surface Table with Stand:</b>	Surface Table, <b>Granite</b> make with dismantle type MS stand with leveling facility.	1
1	<b>Major specifications</b>		
1.1	Size	600 L x 450 W mm	
	Material	Good quality, close grained uniform textured, hard and wear resistant <b>Granite Surface Plate.</b>	
1.2	Grade	0	
1.3	Flatness accuracy	5 Microns	
1.4	Specification	As per IS 7327 – 2003	
1.5	Protection Cover	Rexine	
2	<b>Requirement</b>		
2.1	Lifting facility to be provided		
3	<b>M S Stand</b>		
3.1	Dismantle type rigid MS stand with flat metal shoes		
3.2	Provision for leveling		
3.3	Total work height including Surface Table – 850 mm		
3.4	Painting – Powder coated – Standard colour		

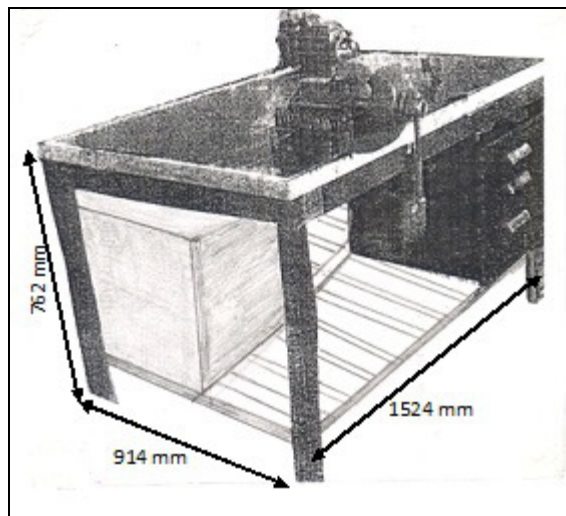
LOT 19 – Misc Measuring Items

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar						
"Misc Measuring Items"						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
1	5	58	6	Feeler GaugeRolls	0.03mm & 0.05mm (1 Meter each)	12
	6	48	6			
2	4	119	1	Feeler gauge 20 blades	0.05-1 mm	1
3	6	57	2	Morse Taper Gauge – Set of Plug & Ring type	MT1, MT2, MT3 of Plug and Ring types	3
	5	71	1			
4	5	61	1 Lot	Plug Gauge Set (Metric & Inch)	3, 4, 6, 8, 10, 14, 16, 18, 20 & 24mm	2 Lots
	6	50	1 Lot		¼, ½, 5/16, 7/16, 5/8, 9/16, 11/16, ¾, 7/8 & 1 inch	
5	9	64	2	Protractor & combination square set		2
6	6	52	1	Radius gauge set	1-7 mm & 7.5 – 15 mm	2
	5	62	1			
7	9	62	6	Radius gauge set	0.4 - 13 mm range	6
8	5	97	1	Sine Bar	150mm length	2
	6	55	1			
9	5	59	2	Thread pitch gauge	0.5 – 6 mm metric 60°	2
10	5	64	1 Lot	Thread Plug & Ring Gauge Set	M4, M6, M8, M10, M14, M16, M18, M20 & M24 sizes of Go and NOGO sets of Thread plug and Thread ring gauges (Set consisting of One each of GO & NOGO of Nine sizes of Plug gauges and One each of GO & NOGO of Nine sizes of Ring gauges i.e 9 sizes of Go Plug gauges, 9 Sizes of NOGO Plug gauges, 9 Sizes of GO Ring gauges and 9sizes of NOGO Ring gauges)	2 Lot
	6	49	1 Lot			
11	8	64	8	Wire Gauge	Round SWG, made of steel to measure wire dia & sheet metal thickness, graduation in both British & Metric	8
12	9	63	6	Wire Gauge	Rectangular SWG, made of steel to measure wire dia & sheet metal thickness, graduation in both British & Metric	6

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar						
"Misc Measuring Items"						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
13	4	120	1	Wire gauge metric and with worth	Round SWG, made of steel to measure wire dia & sheet metal thickness, graduation in Metric	1

**Lot 20(1) - Work Benches- Twin Station with Vice**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: Work Benches- Twin Station with vice	
Agreement Ref. / Sl.No.	Qty
Annexure Ref.4 / Sl.No. 146	4
Annexure Ref.7 / Sl.No. 57	4
Annexure Ref.1 / Sl.No. 14	8
Annexure Ref.5 / Sl.No. 10	8
Annexure Ref.6 / Sl.No. 91	8
Annexure Ref.9 / Sl.No. 30	6
<b>TOTAL</b>	<b>38</b>



**WORK BENCHES – TWIN STATION WITH VICE:**

- Size of work bench : 1524mm Length x 914mm Breadth x762mm Height
- Vice – Heavy duty : 152 mm (Diagonally Opposite)

**Bottom Structure**

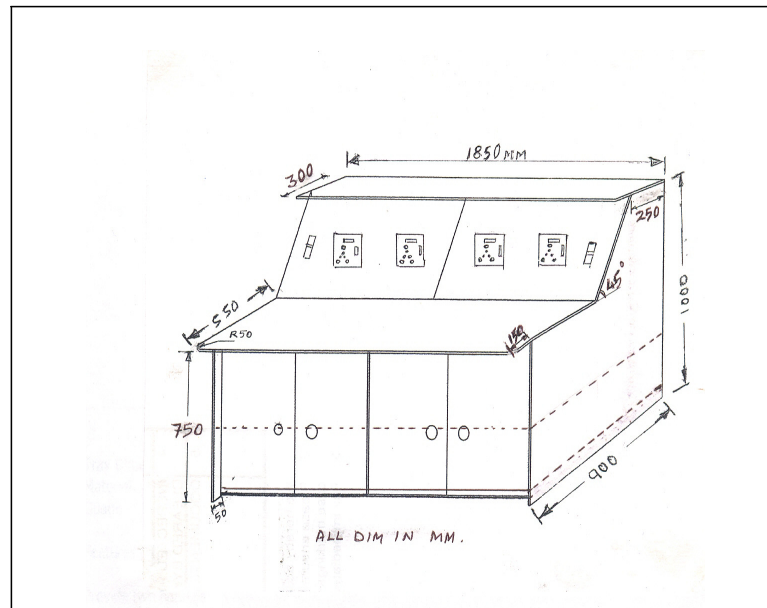
- 76mm Channel for leg & cross supports, bottom shelf “L” angle outer frame, bottom rack made of “sal” wooden strip.

**Table Top**

- 51mm thick “Akasia” wood fitted with 51mm x25mm aluminium “L” angle beading.
- 3 Drawer Box – 2 nos. diagonally placed.
- Cabinet size : 457mm Length x 533 Depth x 533mm Height
- Sheet Thickness : 18 SWG CRC sheet
- Drawer fascia : 102mm x 2 nos & 203mm x 1 no
- Dividers : Set of 3 dividers in each drawer (457mm Length x 533mm Depth x 178mm Height)
- Handle : Brass
- Lock : Central Locking system
- Sliding of drawers : With ball bearings
- Colour : Powder coated Soft Grey polyurethane grade

**Lot 20(2) - Work Benches-Electrical Twin Station**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
Description: Work Benches- Twin Station with vice	
Agreement Ref. / Sl.No.	Qty
Annexure Ref.8 / Sl.No. 25	6



**WORK BENCHES – TWIN STATION / ANTI-STATIC /ELECTRICAL:**

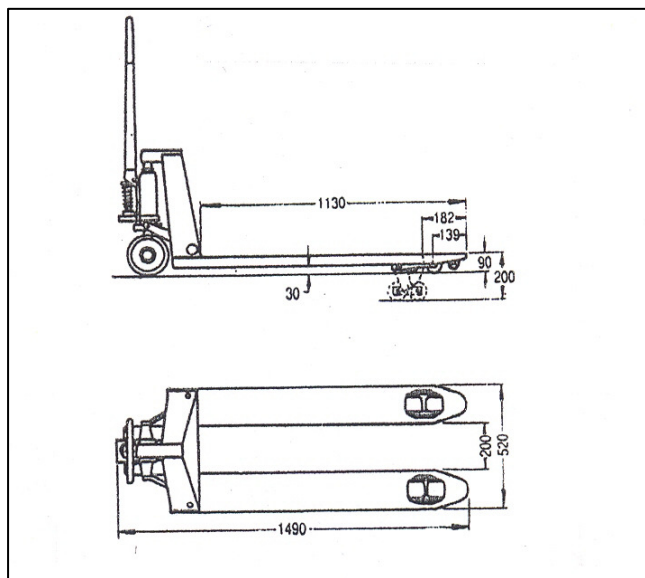
Twin station work bench as shown in the drawing with antistatic rubber sheet. Electrical items are to be mounted and wired with 4mm twin core + earth, flexible cable terminated on 32 amps screw type MAINS Terminal block mounted inside the cabinet. All the Wiring to be concealed

- Partition to be provided at the middle, horizontally and vertically in the bottom cabinet
- Doors to be provided with 2 nos hinges on both sides, magnetic latches, quality handles / knobs and lock,
- tower bolt in one of the doors in each workstation
- Structure to be strong and rigid and to be made out of ISI mark Particle Board 19mm thickness with white sun mica matt finish top.
- 2 nos. ISI mark Sockets: 5 A & 15 A combined with ON/OFF switch & LED indicator mounted on each workstation as shown in drawing

1 no MCB 20 Amps, Single phase, 230 Volt, 50 Hz mounted on both ends of the work bench as shown in drawing

**Lot 21(1)- Pallet Roll & Pallet Truck**

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar	
<b>Description: PALLET ROLL</b>	
Agreement Ref. / Sl.No.	Qty
Annexure Ref. 4 / Sl.No.197	2
Annexure Ref. 5 / Sl.No.99	2
Annexure Ref. 6 / Sl.No.94	2
Annexure Ref. 7 / Sl.No.51	2
Annexure Ref. 6 / Sl.No.95	1
Annexure Ref. 9 / Sl.No.27	1
<b>TOTAL</b>	<b>10</b>

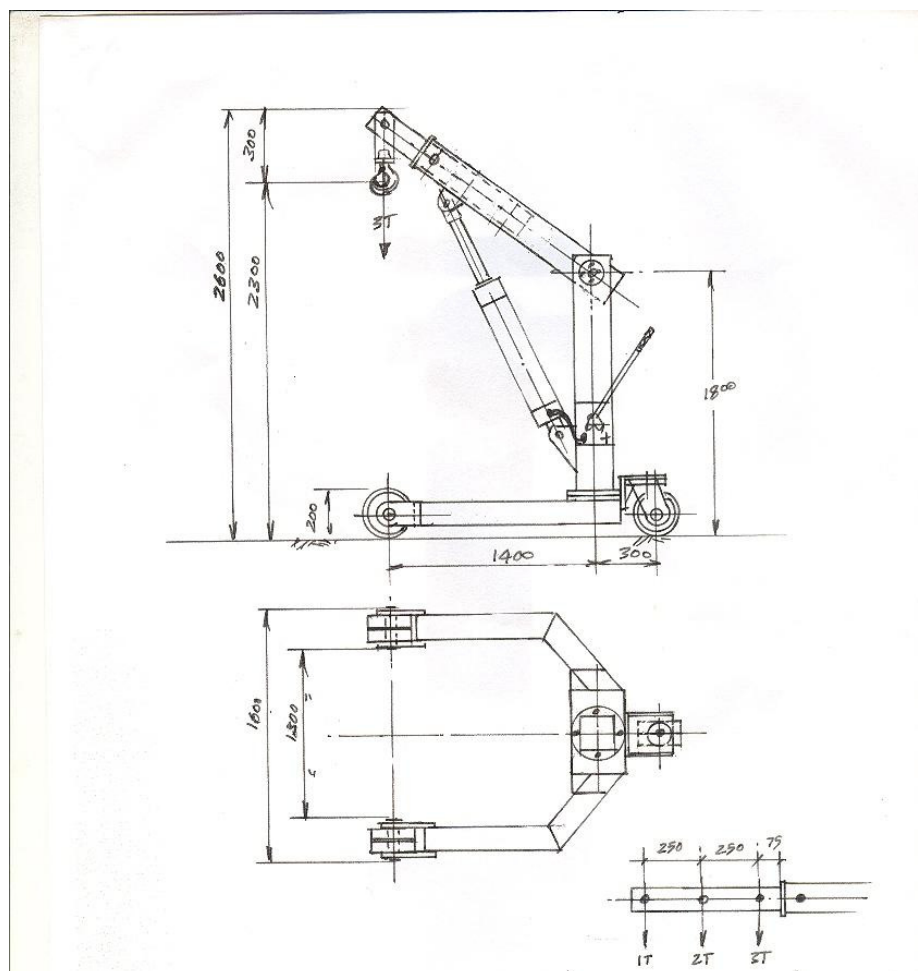


Capacity	:2500 kgs
Fork (L X W)	:1130 X 520 mm
Min height	:90 mm
Min distance b/w fork bottom & floor	:30 mm
Max height	:200 mm
Pallet sheet	:3 mm
Piston	:Hard chrome plated & polished
Hydraulic system	:Double sealed high pressure polyurethane packing
Steering handle	:To enable fatigue less operation
Rear Wheels	:2 nos UHMW material 180 mm dia 50 mm wide wheels with double sealed ball bearing
Front Wheels	:2 nos each on either sides UHMW material 80 mm dia 70 mm wide with double sealed ball bearing
Nose wheels	:To facilitate easy entry into double layered pallets 1 no. on each fork dia 40 mm nylon make
Hydraulic system	:Lifting movement should be more than 10 mm per stroke
Paint	:PU / Powder coated yellow



**Lot 21(2)- Pallet Crane**

Project:			
Ref No. Ref. Sl.No.100 of Annex 5 & Sl. No. 96 of Annex 6			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Pallet Crane –Manual-Hydraulic - 3 Ton Capacity</b>		2 Nos.
1.1	Load Capacity	3 Ton	
1.2	Height of Lift – Max/Min	2600/500 mm	
1.3	Type of lifting	Hydraulic - Manual	
1.4	Type of lowering	Manually through valve	
1.5	Type of Hydraulic cylinder	Single acting – Reputed ISO make	
1.6	Type of pump	Reputed ISO Make	
1.7	Lifting speed (Min)	3 meters/minute	
1.8	No. of extensions of boom	3	
1.9	Lifting Loads	1T, 2T & 3T	
2	<b>Required Accessories</b>		
2.1	Service Toolkit		2 sets
2.2	First fill oil etc.	Required quantity	2 sets
2.6	Operation / Maintenance / Spare parts Manual	3 sets	2 sets
2.7	Colour	PU Epoxy paint Yellow with black strips.	
3	Recommended Mechanical spares for 2 years of normal operation	Item wise quantity with price to be provided	2 sets
4	Items required for commissioning at site	Touch up paint – 1/2 Litre each colour	2 sets



**LOT - 22 Mechatronics Equipment**

**1. PLC Trainer Kit**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar</b>			
<b>Ref No. Enclosure – 1/1 of Annexure I- Mechatronics</b>			<b>Quantity: 1 no</b>
<b>Item: PLC Trainer Kit</b> : PLC Trainer Kit with all standard accessories to carry out different experiments and suitable for 1 phase 230 V, 50HZ AC.			
<b>1.</b>	<p><b>Objective:</b></p> <ol style="list-style-type: none"> <li>1. For use in Vocational Training Centre for giving practical training to students who passed 10<sup>th</sup> standard and above.</li> <li>2. To understand and experiment the functionality of PLC, interfaces of various devices and components to develop different circuits and control of practical applications.</li> <li>3. To teach and train the students in programming of different types of PLCs and execute programmes developed to understand static &amp; dynamic simulators.</li> </ol>		
<b>2</b>	<p><b>Major Technical Specification:</b></p> <ul style="list-style-type: none"> <li>• The system shall be desktop rack type and modular with suitable table.</li> <li>• The rack to be provided with DIN rail for clipping on different PLCs and can be expanded</li> <li>• Static Modules comprising process control simulators , Manufacturing automation control simulators and other simulators</li> <li>• Dynamic Modules comprising sensor module, Relay module, star delta module etc.</li> <li>• Logic controller, software, power supply etc.</li> </ul>		
<b>3</b>	NOTE: All the softwares and kits should be compatible and integrate with the complete system.		
<b>4</b>	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.		3 sets each
<b>5</b>	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided	1 set each
<b>6</b>	Colour of equipment :	Standard	
<b>7</b>	Items required for Erection & Commissioning.	<ul style="list-style-type: none"> <li>• Touch up paint – required qty</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cora cloth – 5 Mtrs.</li> </ul>	1 set each

## 2. Digital Sensor Module

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Enclosure – 2/1 of Annexure I- Mechatronics	Quantity: 1 No	
<b>Item: Digital Sensor Module :</b> Digital Sensor Kit with all standard accessories to carry out different experiments and suitable for 1 phase 230 V, 50HZ AC.		
1.	<b>Objective:</b> <ol style="list-style-type: none"> <li>For use in Vocational Training Centre for giving practical training to students who passed 10<sup>th</sup> standard and above.</li> <li>To understand and experiment the basic concepts in sensor technology with a focus on digital sensors prevalent in the current industry.</li> </ol>	
2	<b>Major Technical Specification:</b> <ul style="list-style-type: none"> <li>The system shall have Aluminium profile plate for mounting the components and measuring equipment with suitable table.</li> <li>Distribution unit with Power supply</li> <li>Digital counter display for frequency, multi meter, vernier caliper, speed and frequency measurement etc.</li> <li>Software</li> <li>Test pieces for sensors.</li> </ul>	
3	NOTE: All the softwares and kits should be compatible and integrate with the complete system	
4	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.	3 sets each
5	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided 1 set each
6	Colour of equipment :	Standard
7	Items required for Erection & Commissioning.	<ul style="list-style-type: none"> <li>Touch up paint – required qty</li> <li>Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>Cora cloth – 5 Mtrs.</li> </ul> 1 set each

### 3. Analogue Sensor Module

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Enclosure – 3/1 of Annexure I	Quantity: 1 no	
<b>Item: Analogue Sensor Module</b> : Analogue Sensor Kit with all standard accessories to carry out different experiments and suitable for 1 phase 230 V, 50HZ AC.		
1.	<b>Objective:</b> <ol style="list-style-type: none"> <li>For use in Vocational Training Centre for giving practical training to students who passed 10<sup>th</sup> standard and above.</li> <li>To understand and experiment the basic concepts in sensor technology with a focus on ultrasonic, strain and distance measurement by means of optical sensors prevalent in the current industry.</li> </ol>	
2	<b>Major Technical Specification:</b> <ul style="list-style-type: none"> <li>The system shall have Aluminium profile plate for mounting the components and measuring equipment with suitable table.</li> <li>Distribution unit with Power supply</li> <li>Digital counter display for frequency etc.</li> <li>Software</li> <li>Test pieces.</li> </ul>	
3	NOTE: All the softwares and kits should be compatible and integrate with the complete system.	
4	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.	3 sets each
5	NOTE: All the softwares and kits should be compatible and integrate with the complete system	
6	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided 1 set each
7	Colour of equipment :	Standard
8	Items required for Erection & Commissioning.	<ul style="list-style-type: none"> <li>Touch up paint – required qty</li> <li>Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>Cora cloth – 5 Mtrs.</li> </ul> 1 set each

#### 4. Dynamic Module

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Enclosure – 4/1 of Annexure I- Mechatronics	Quantity: 1 no	
Item: <b>Dynamic Module</b> : Dynamic Module Kit with all standard accessories to carry out different experiments and suitable for 1 ph 230 V, 50HZ AC /3 Ph 400V, 50HZ.		
1.	<b>Objective:</b> 1. For use in Vocational Training Centre for giving practical training to students who passed 10 <sup>th</sup> standard and above.  2. To understand intermediate level of dynamic module with Sensor and Relay module.	
2	<b>Major Technical Specification:</b>  <b>Sensor Module:</b> Set of inductive, capacitive, optical, magnetic read switch sensors, micro switches etc. Demonstration of sensor operation and control through PLC.  <b>Relay Module:</b> Set of NC relays with instrument load such as fan and lamps to demonstrate the operation through PLC.  <b>Star Delta Module:</b> Set of contactors for starting the 3 phase induction motor.	
3	NOTE: All the softwares and kits should be compatible and integrate with the complete system.	
4	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.	3 sets each
5	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided 1 set each
6	Colour of equipment :	Standard
7	Items required for Erection & Commissioning.	<ul style="list-style-type: none"> <li>• Touch up paint – required qty</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cora cloth – 5 Mtrs.</li> </ul> 1 set each

## 5. Linear Transfer System

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Enclosure – 5/1 of Annexure I- Mechatronics	Quantity: 1 No	
<b>Item: Linear Transfer System</b> : Linear Transfer System Kit with all standard accessories to carry out different experiments and suitable for 1 phase 230 V, 50HZ AC.		
1.	<b>Objective:</b> <ol style="list-style-type: none"> <li>1. For use in Vocational Training Centre for giving practical training to students who passed 10<sup>th</sup> standard and above.</li> <li>2. To understand and experiment the basic concepts of automated transport &amp; sorting process using two types of conveyors and a pick and place unit.</li> <li>3. PLC programming and interfacing</li> <li>4. Pneumatics/electronic pneumatic</li> <li>5. Sensor technology</li> <li>6. Automation design</li> </ol>	
2	<b>Major Technical Specification:</b> <ul style="list-style-type: none"> <li>• Complete workstation mounted on an aluminium profile plate with operating console with suitable table.</li> <li>• Belt conveyor</li> <li>• Pick &amp; place unit</li> <li>• Horizontal transfer unit</li> <li>• Transfer module (Rotary pick &amp; place unit)</li> <li>• 6 station rotary indexing table</li> <li>• Distancing module</li> <li>• PLC software.</li> <li>• PC with latest configuration, required softwares and hardwares.</li> </ul>	
3	NOTE: All the softwares and kits should be compatible and integrate with the complete system.	
4	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.	3 sets
5	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided 1 set
6	Colour of equipment :	Standard
7	Items required for Erection & Commissioning.	<ul style="list-style-type: none"> <li>• Touch up paint – required qty</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers. Cora cloth – 5 Mtrs.</li> </ul> 1 set

## 6. Six axis Robot

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar				
Ref No. Enclosure – 6/1 of Annexure I- Mechatronics			Qty : 1 no.	
Sl.No.	Description	Brief Specifications	Qty	Remarks
1	<b>Item: 6 axis Robot</b> with all standard accessories to carry out different experiments and Electricals suitable for 1 phase 230V 50Hz AC, 5A		1	
2	<b>General specifications</b>			
2.1	Controller	PC based PD control algorithm		
2.2	Path type	Point to Point, Linear & Circular interpolation		
2.3	Application	Pick & place, palletising, writing, machine loading /unloading, assembly, interfaceability with machine, etc.		
3	<b>Main specifications</b>			
3.1	No. of axes	6		
3.2	Vertical Height	400 mm		
3.3	Pay load capacity	2.5 Kg		
3.4	Joint actuators	DC servo geared motors		
3.5	Control software	Programming		
3.7	Repeatability	+/- 0.3 mm		
3.8	Resolution	0.1 degree		
3.9	Servo stabilizer, air compressor, PC, Software etc.	Suitable		
4	Operation/ Programming/Spare parts manual		3 sets	
5	Set of Electrical & Mechanical spare parts recommended for two years normal operation	Item wise quantity with price to be provided	1 Set	
6	Colour of machine	Standard	1 Set	
7	Items required for Erection & Commissioning	Touch up paint – 1/2 lt each colour, cotton waste- ½ kg, initial fill of oil etc to be supplied.	1 Set	

## 7. Robot Application Experimental kit

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar			
Ref No. Enclosure – 7/1 of Annexure I- Mechatronics		Quantity: 1 No	
<b>Item: Robot Application Experimental kit</b> : Robot Application Experiment Kit with all standard accessories to carry out different experiments and suitable for the above Robot and for 1 phase 230 V, 50HZ AC.			
1	<b>Required accessories:</b>		
a	Robot experiment table	Suitable	
b	Machine loading & unloading	Pneumatic vice and chuck	
c	Pick & place	Vertical stacking & horizontal palletizing	
d	Assembling & disassembling	Industry based	
e	Other experimenting kits if any		
2	NOTE: All the softwares and kits should be compatible and integrate with the complete system.		
3	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.		3 sets
4	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided	1 set
5	Colour of equipment :	Standard	



## 8. Integration of Robot with Automation

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar			
Ref No. Enclosure – 8/1 of Annexure I- Mechatronics		Quantity: 1 No	
<b>Item: Integration of Robot with Automation:</b> Integration of Robot with Automation Kit with all standard accessories to carry out different experiments and suitable for 1 phase 230 V, 50HZ AC.			
1.	<b>Objective:</b> <ol style="list-style-type: none"> <li>1. For use in Vocational Training Centre for giving practical training to students who passed 10<sup>th</sup> standard and above.</li> <li>2. To understand and experiment the basic concepts and simulate pick &amp; place, assembly, different mechanical operations.</li> </ol>		
2	<b>Major Technical Specification:</b> <p>Complete workstation mounted on an aluminium profile plate with suitable table having operating console consisting of:</p> <ul style="list-style-type: none"> <li>• Rotary Pick &amp; place unit</li> <li>• Belt conveyor</li> <li>• Weighing module</li> <li>• PLC</li> <li>• Robot</li> <li>• Power supply unit etc.</li> <li>• PC with suitable softwares, hardwares etc. of latest configuration</li> <li>• Suitable stabiliser</li> </ul>		
3	NOTE: All the softwares and kits should be compatible and integrate with the complete system.		
4	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.		3 sets
5	Set of spare parts recommended for two years normal operation of machine	Item wise quantity with price to be provided	1 set
6	Colour of equipment :	Standard	
7	Items required for Erection & Commissioning.	<ul style="list-style-type: none"> <li>• Touch up paint – required qty</li> <li>• Initial fill of Hydraulic/Lubrication/Cutting Oil, if any in separate sealed containers.</li> <li>• Cora cloth – 5 Mtrs.</li> </ul>	1 set

## 9. Mechatronics software

Project: Setting up of Indo-Myanmar Industrial Training Centre at Monywa, Myanmar		
Ref No. Enclosure – 10/1 of Annexure I- Mechatronics	Quantity: For 5 users	
<b>Item: Mechatronics software</b> : Mechatronics software to run the below detailed kits/equipment.		
1.	<p><b>Objective:</b></p> <ol style="list-style-type: none"> <li>1. For use in Vocational Training Centre for giving practical training to students who passed 10<sup>th</sup> standard and above.</li> <li>2. To understand and experiment the above kits/equipment and to suite various exercises and either to work stand alone or integrated demonstrating specific purpose for the following levels. <ul style="list-style-type: none"> <li>❖ For Basic Simulation</li> <li>❖ For Advanced Simulation</li> <li>❖ For Robotic Simulation</li> </ul> </li> </ol>	
2	<p><b>Major Technical Specification:</b></p> <ul style="list-style-type: none"> <li>• All the softwares and kits should be compatible and integrate with the complete system.</li> </ul>	
3	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot in hard copy and soft copy in CD/Pen drive.	3 sets each

**LOT – 23 Equipment for Apparel Manufacturing courses**

<b>Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.</b>			
Ref No. SI No. 1 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Lock Stitch Machine – Single needle</b>	<b>Lock stitch machine with clutch motor, - with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.</b>	20
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	4500 stitches /min	
1.5	Max stitch length	5 mm	
1.6	Needle bar stock	>30 mm	
1.7	Lift of the pressure foot	By hand >5 mm By knee >12 mm	
1.8	Needle	DBx1 (No. 14) #9 - #18	
1.9	Feed dog	4 row	
1.10	Hook	Automatic lubricating full rotary hook	
1.11	Lubrication	Automatic	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		20
2.2	Castor wheels with lock facility for ease of manoeuvrability		20
2.3	Electrical cord length, 3wired, 1.5 metres length with 3 pin plug		20
2.4	a)Bobbin – 20 nos b)Bobbin case – 10 nos. c)Needle – 1 set of 100 needles d) Tool kit – 1 no.		20 sets
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		20 sets
5	Operation, Maintenance and spare parts manual – 3 sets each		20 sets
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 2 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Lock Stitch Machine with UBT – Single needle Lock stitch machine with servo motor, Direct drive with under bed Trimmer (UBT)-</b> with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.		1
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	4000 stitches /min	
1.5	Max stitch length	5 mm	
1.6	Needle bar stock	>30 mm	
1.7	Needle	DBx1 (No. 14) #14 ~ #18	
1.8	Lubrication	Automatic	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 3wired, 1.5 metres length with 3 pin plug		1
2.4	a)Bobbin – 20 nos b)Bobbin case – 10 no. c)Needle – 1 set of 100 needles d) Tool kit – 1 no		1 set
2.5	Control box & control panel having 99 modes for selection		1
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 3 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Button Hole Stitching Machine – Electronic – Single needle, Computer controlled High Speed Button hole stitching machine with AC servo motor - with all standard accessories and Electrical suitable for 3Ph, 230V, 50Hz, AC supply.</b>		1
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	3600 stitches /min	
1.5	Size of cloth cutting knife	6.5 to 31 mm	
1.6	Needle bar stock	>30 mm	
1.7	Needle	DPx5 (No. 11J) #11J ~#14J	
1.8	Lubrication	Automatic	
1.9	Hook	DP type, full rotary hook	
1.10	Lift of the work clamp	Max 14 mm	
1.11	Auto lifter	Stepping motor type	
1.12	Needle throwing system	Stepping motor	
1.13	No. Of standard patterns	Min 30 patterns	
1.14	No. Of patterns that can be input	Max 99 nos	
1.15	Bobbin thread winder	In built	
1.16	Control box	With power switch	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 1.5 metres length		1
2.4	a)Bobbin – 20 nos b)Bobbin case – 10 nos. c)Needle – 1 set of 100 needles d) Tool kit – 1 no		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 4 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Button Stitching Machine – Computer controlled, Single needle, High Speed Lock stitch, Button Sewing machine with AC servo motor &amp; Control panel-</b> with all standard accessories and Electrical suitable for 3Ph, 230V, 50Hz, AC supply.		1
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	2700 stitches /min	
1.5	Button size	Round shaped, flat button, size dia 8 – 20 mm	
1.6	Stitch length	0.1 – 10 mm, in steps of 0.1 mm	
1.7	Needle bar stock	45 mm	
1.8	Needle	DPx17 (#14)	
1.9	Lubrication	Hook: minute quantity lubrication.	
1.10	Hook	Standard shuttle hook	
1.11	Lift of the work clamp foot	Max 13 mm	
1.12	Auto lifter	Stepping motor type	
1.13	No. Of standard patterns	Min 50 patterns	
1.14	No. Of patterns that can be input	Max 200 nos	
1.15	Enlarging/Reducing facility	20- 200%	
1.16	Control box	With power switch	
1.17	Bobbin thread counter	Up/Down method	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 1.5 metres length		1
2.4	a)Bobbin – 20 nos b)Bobbin case – 10 nos. c)Needle – 1 set of 100 needles d) Tool kit – 1 no.		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 5 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Front Placket Machine – Four needle Chain Stitched Front Placket Making Machine- Motorised with smooth puller for shirt fronting-</b> with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.		1
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP or higher	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	No. Of needles	4	
1.5	No. Of thread	8	
1.6	Stitch / inch	7 ~ 17	
1.7	Presser foot lift	10 mm	
1.8	Needle bar stroke	31 mm	
1.9	Max speed	4500 rpm.	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 1.5 metres length		1
2.4	a)Looper – 10 nos b)Needle – 1 set c) Tool kit & Tool box		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 6 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Cutting Machine – Motorised – Straight Knife cutting</b> - with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.		1
1	<b>Major specifications</b>		
1.1	Rated Power	0.65 HP	
1.2	Type	Straight Knife Cutting, Standard speed	
1.3	Blades	Carbon steel	
1.4	Belt	Medium grit	
1.5	Stroke size	1.75"	
1.6	Blade size	8" (200 mm)	
1.7	Cutting capacity	11.5"	
2	<b>Required Accessories / Spares</b>		
2.1	Electrical cord length, 5 metres length		1
2.2	a) Blade – 5 no b) Emery Belt – 5 no. c) Oil for lubrication d) Tool kit		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each



Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 7 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Over locking Machine – Two needles, 5 thread over lock machine-</b> with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.		1
1	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	7000 rpm	
1.5	Stitch length	0.8 – 4 mm	
1.6	Needle gauge	2.0,2.4, 3.2 mm	
1.7	Overedging width	3.2,4.0,4.8 mm	
1.8	Differential feed ratio	For gathering 1:2, For stretching 1:0.7	
1.9	Needle bar stroke	24.5 mm.	
1.10	Inclination of needle	20 degrees	
1.11	Needle mechanism	Needle bar method and upper/lower bushing	
1.12	Needle	DCx27	
1.13	Max lift of presser foot	7 mm	
1.14	Max. Presser foot pressure	63N	
1.15	Stitch adjusting method	By push button	
1.16	Differential feed adjusting method	By lever with micro adjustment	
1.17	Lubrication	Automatic	
1.18	Micro lifter		
2	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 1.5 metres length		1
2.4	a) Needle – 1 set of 100 needles b) Tool kit – 1 no		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 years normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 8 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Over locking Machine – One needle, 3 thread over lock machine-</b> with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.		1
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	7000 rpm	
1.5	Stitch length	0.8 – 4 mm	
1.7	Overedging width	1.6,3.2mm	
1.8	Differential feed ratio	For gathering 1:2, For stretching 1:0.7	
1.9	Needle bar stroke	24.5 mm.	
1.10	Inclination of needle	20 degrees	
1.11	Needle mechanism	Needle bar method and upper/lower bushing	
1.12	Needle	DCx27	
1.13	Max lift of presser foot	7 mm	
1.14	Max. Presser foot pressure	63N	
1.15	Stitch adjusting method	By push button	
1.16	Differential feed adjusting method	By lever with micro adjustment	
1.17	Lubrication	Automatic	
1.18	Micro lifter		
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 1.5 metres length		1
2.4	a) Needle – 1 set of 100 needles b) Tool kit – 1 no		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. SI No. 9 of Annex 2			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Zig Zag Stitching Machine – Computer controlled One needle, Direct drive, High Speed, Lock Stitch Zig Zag Stitching machine with control panel-</b> with all standard accessories and Electrical suitable for 1Ph, 230V, 50Hz, AC supply.		1
<b>1</b>	<b>Major specifications</b>		
1.1	Rated Power	0.25 HP	
1.2	Type	Industrial and without automatic thread trimmer	
1.3	Application	Light to Medium weight	
1.4	Max sewing speed	5000 rpm	
1.5	Max zig zag width	8 mm/2 step, 10 mm/3 step zig zag	
1.7	Needle throw mechanism	Computer controlled	
1.8	Max feeding amount	5 mm	
1.9	Max lift of presser foot	By hand 5.5 mm By knee 10 mm	
1.10	Thread take up	Rotary type	
1.11	Needle	SCHMETZ 438 (#75) ORGAN DP 5 (#70)	
1.12	No. Of patterns for standard stitching	8 types/14 patterns	
1.13	Input function of the main unit	Operation panel	
1.14	Bobbin thread winder	In built	
1.15	M/c head drive	AC servomotor- direct drive	
1.16	Lubrication	Automatic	
<b>2</b>	<b>Required Accessories / Spares</b>		
2.1	Adjustable stand/table for placing the m/c 3.5' x 2.5'		1
2.2	Castor wheels with lock facility for ease of manoeuvrability		1
2.3	Electrical cord length, 1.5 metres length		1
2.4	a) Needle – 1 set of 100 needles b) Tool kit – 1 no c) Bobbin – 20 nos d) Bobbin case 10 nos.		1 set
3	Colour - Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. (Item wise quantity with price to be provided)		1 set
5	Operation, Maintenance and spare parts manual – 3 sets each		1 set
6	Items required for erection and commissioning	<ul style="list-style-type: none"> <li>• Touch up paint – 100 ml each colour in airtight sealed containers, Paint brush 1/4" 1 no. for each colour</li> <li>• Initial fill of Lubrication Oil in separate sealed containers.</li> </ul>	1 set each

<b>Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.</b>			
Ref No. SI No. 10 of Annex 2			
<b>Sl. No.</b>	<b>Item</b>	<b>Brief Specification</b>	<b>Qty.</b>
<b>1.</b>	<b>Iron Box – Vacuum based with Steam Generator</b> - with all standard accessories and Electrical suitable for 3Ph, 400V, 50Hz, AC supply.		1 no
<b>a</b>	<b>Vacuum ironing table 3 Phase 400 Volts / 50 Hz</b>		1 No.
<b>1</b>	<b>Description</b>		
	<ol style="list-style-type: none"> <li>1. Designed for garment industry, studios and alteration shops.</li> <li>2. Flat top suction ironing table with optional swivel arm with buck for ironing specific parts of the garment.</li> <li>3. Ironing table height adjustable to 3 levels.</li> <li>4. Tube light and try (to hold finished garments or trims accessories) optional.</li> <li>5. More Productive, sophisticated, powerful.</li> <li>6. Elegant look and rust-proof powder coated.</li> <li>7. Ensure superior suction through noiseless working atmosphere.</li> <li>8. Washable foam and heat proof cloth ensuring longer life &amp; easy maintenance.</li> <li>9. Detachable Systems, for easy transportation and installation.</li> <li>10. Controlled operation, guaranteed safety and superior performance.</li> <li>11. No immense of moisture and heat which ensure wrinkle free.</li> </ol>		
<b>2</b>	<b>Technical specifications</b>		
	Working Size : 1300 x 800 mm Width : 1500 mm Depth : 920 mm Working Area Height : 800 mm Vacuum Motor : 0.75 – 0.8 hp		
<b>b</b>	<b>Steam Press</b>		1 No.
<b>1</b>	<b>Description</b>		
	<ol style="list-style-type: none"> <li>1. Designed for garment industry, studios and alteration shops.</li> <li>2. Remote electronic temperature control .</li> <li>3. Precision control of temperature (+/- 2<sup>o</sup> not working).</li> <li>4. Ergonomic pps handle and low temperature transmission.</li> <li>5. Steam regulator to control the flow rate.</li> <li>6. External switch for steam productions with silver contacts.</li> <li>7. To facilitate pressing on all kinds of fabrics.</li> </ol>		
<b>2</b>	<b>Technical specifications</b>		
	Dimensions – 220 x 115 mm Power – 900 w		
<b>c.</b>	<b>Steam Generators</b>		1 No.
<b>1</b>	<b>Description</b>		
	<ol style="list-style-type: none"> <li>1. Fully-automatic, self-contained generators, utilizing minimum power and space, are extremely safe and supply the right quantity of steam at the right places.</li> <li>2. Portable and easy to handle. To be conveniently used anywhere.</li> <li>3. Compact, reliable and easy to use.</li> <li>4. To provide with safety mechanisms with an alarm system for safety.</li> </ol>		
<b>2</b>	<b>Technical specifications</b>		
	Heater Capacity : approx 1.6 kw Steam Output : 2 - 2.5 kg/hr Operating Pressure : 3 bar Steam Connections : 1 no Water Inlet : ½” Steam Outlet : ¼” Suitable for number of irons : 1 no Water Capacity : 5.5 – 6 litres		

<b>Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.</b>			
Ref No. SI No. 10 of Annex 2			
<b>Sl. No.</b>	<b>Item</b>	<b>Brief Specification</b>	<b>Qty.</b>
<b>d</b>	<b>Egg-shaped buck with accessories for ease of ironing sleeves &amp; top of pant</b>		1 set
<b>1</b>	<b>Major specifications</b>		
	Cover: 1. Industry soft 2. Industry hard 3. Standard 4. Soft Standard		
<b>2</b>	<b>Technical specifications</b>		
	Diameter 85 mm 600 x 250 mm		
<b>3</b>	<b>Colour</b>	Standard Colour	
<b>4</b>	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.				
Sl. No.	Ref No.	Item	Brief Specification	Quantity
1	Sl No. 13 of Annex 2	Work aids	Basic yoke attach folder, hemming folder, placket folder – 20 each.	1 lot
2	Sl No. 17 of Annex 2	Linen Tape	2 Meters	20 nos
3	Sl No. 18 of Annex 2	Scissors	Blade: steel or Iron Handle: Brass, Size: 6", 5" and 4" – set of 3	20 sets
4	Sl No. 19 of Annex 2	Needles for manual sewing	Suitable for sewing all the types of fabrics. Size: Assorted - Big, Medium & Small – 3 sets – 50 nos each packed in rust proof paper.	20 sets
5	Sl No. 20 of Annex 2	Fabric cutting aids		20 sets
		a. Shears	Blades 6" long and different handle loops for fingers and thumb – 3 types.	
		b. Snips	Suitable for reaching in and snipping stray threads	
		c. Rotary Cutter	Sizes of blades are 18mm, 28mm, 45mm, and 60mm – 4 nos	
6	Sl No. 21 of Annex 2	Shirt Buttons/Hooks/Metal Snap buttons	Shirt buttons with <ul style="list-style-type: none"> <li>• 2 holes – 3 sizes with 10 diff. Colours-100 nos each</li> <li>• 3 holes– 3 sizes with 10 diff. Colours – 100 nos each</li> <li>• 4 holes– 3 sizes with 10 diff. Colours – 100 nos each</li> </ul> Hooks and metal snap buttons - 3 sizes – 100 nos each	20 sets
7	Sl No. 23 of Annex 2	Scissors	Brass handle 25 cms	20
8	Sl No. 24 of Annex 2	Tailor's Square	Material: Wooden / Plastic Size: 300 mm x 600 mm	20
9	Sl No. 25 of Annex 2	Leg Shaper	Material: Wooden / Plastic Size: 24"	20
10	Sl No. 26 of Annex 2	Cloth Brush	Wooden handle 3" bristles 5"	20
11	Sl No. 27 of Annex 2	Tracing Wheel	Wooden handle with iron wheel 3"	1 No
12	Sl No. 28 of Annex 2	Measuring Tape	Material: Rubberised Linen, Size: 150 cms	20
13	Sl No. 29 of Annex 2	Thread Ripper	Size: 3" Plastic handle	20
14	Sl No. 30 of Annex 2	Timble	Size: 1.5 cms open type steel	20
15	Sl No. 31 of Annex 2	Tailor's card triangle	Size: 60 cm length (Card scale)	20
16	Sl No. 32 of Annex 2	Tailors art curve	Material: Wooden / Plastic Size: 30 x 60 cm	20
17	Sl No. 33 of Annex 2	French Curve	Material: Plastic Size: 6" to 8" set of 3	20
18	Sl No. 34 of Annex 2	Button Hole Scissors	Material: Steel, Size: 4"	5 Nos.
19	Sl No. 35 of Annex 2	Pinking Scissors	Material: Steel Size: 8"	5 Nos.
20	Sl No. 36 of Annex 2	Left hand scissors	Material: Steel Size: 25 cm	4 Nos.
21	Sl No. 37 of Annex 2	Shear	Brass handle 10" to 12" Size: 30 cm	2 Nos.
22	Sl No. 38 of Annex 2	Gum tape dispenser	For office use	1 No.
23	Sl No. 39 of Annex 2	Rubber Mat	Size: 300 x 1250 x 25 mm	4 Nos.
24	Sl No. 40 of Annex 2	Garment Sprayer	Material: Plastic Size: 6"	4 Nos.
25	Sl No. 41 of Annex 2	Blanket of size 5" x 8" for padding as pressing table	Size: 5' x 8'	4 Nos.
26	Sl No. 42 of Annex 2	Milton cloth double width	Size: 2 meters Colour: Brown / Green	8 Nos.
27	Sl No. 53 of Annex 2	Stainless steel mesh left hand glove		10 nos

## LOT - 24 Refrigeration & Air conditioning Trainer Equipment

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 1 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Quantity
1	<b>Refrigeration Test Rig – Trainer:</b> -To understand theory, constructional and operational features of refrigeration and to study its performance characteristics suitable for 1-Phase, 230 V, 50 Hz AC supply. (MCB's to be used in place of fuses)		1 No
	<b>Major Specifications:</b>		
1.1	Capacity	1500K.Cal/hr	
1.2	Tonnage	0.5 Ton	
2	<b>Purpose:</b>		
2.1	Identify components of an refrigeration unit		
2.2	State need for eco-friendly refrigerant gas		
2.3	Study of a typical refrigeration cycle		
2.4	Calculate COP at various loads		
3	<b>Requirements:</b>		
3.1	Hermetically sealed Compressor, Reputed Make		
3.2	Expansion device: Capillary		
3.3	Control chamber: Water tank, of 20 lit capacity. MOC: SS, 16 SWG, inner as well as outer casing, with 40 mm insulation. The chamber to have the following facilities <ul style="list-style-type: none"> <li>• Arrangement to drain water</li> <li>• Arrangement to house evaporator coil</li> <li>• Arrangement to mount electrical heater</li> <li>• Arrangement to house temperature Sensor</li> </ul>		
3.4	Rotameter : To measure refrigerant flow		
3.5	Evaporator: Water cooled type made of copper pipe		
3.6	Electrical Heater to load the system: 3 kW		
3.7	Energy-meter for recording power consumption .		
3.8	Temperature Indicator (8 point) with 8 nos of Pt100 sensors.		
3.9	Pressure gauges panel mounted, back connection type		2 Nos
3.10	H.P. / L.P cut out		
3.11	Refrigerant: R 134A		
3.12	Structure: Made of suitable MS square section & Powder coated .		
3.13	Structure size: 720 (W) X 900 (H) X 500 (D) mm approximately.		
3.14	Schematic diagram: To be enclosed in Manuals		
4	Colour	Standard Colour	
5	Operating manual containing Basic theory, Procedure to conduct experiment and troubleshoot.		3 sets
6	Recommended spares for 5 years of normal operation	Item wise quantity with price to be provided	1 set
7	Items required for commissioning at site	Touch up paint, brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 2/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Walk-in Cooler Trainer:</b> The trainer is designed to understand theory, constructional and operational features of refrigeration and to study its performance characteristics suitable for 1-Phase, 230 V, 50 Hz AC supply. (MCB's to be used in place of fuses).		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	1500 Kcal/hr	
1.2	Chamber Size	48" (H) X 36 " (W) X 36" (D)	
1.3	Doors	1 no.	
1.4	Chamber Construction	Made up of PUFF panel with 3" thick insulation	
1.5	Refrigerant suitable for	R134A	
1.6	Bulkhead	Bulkhead light with switch	
1.7	Room Construction	The room should be equipped with heater	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of a Walk-in Cooler unit		
2.2	To study of a typical refrigeration cycle		
2.3	To calculate COP at various loads		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Compressor: Hermetically sealed; Reputed make		
3.2	Expansion device: Capillary		
3.3	Control chamber: Size: 48" (H) X 36"(W) X 36" (D), made of GI Puff panel Sheet with 3" thick insulation This chamber has doors for accessibility. Outside material GI, Inside material: GI with Antiskid Aluminium floor		
3.4	Rotameter to measure refrigerant flow		
3.5	Evaporator		
3.6	Electrical Heater to load the system:0.5kW.		
3.7	Temperature Indicator (8 point) with Pt100 sensors.		6nos
3.8	Pressure gauges - Panel mounted, back connection type of Reputed make		2 nos.
3.9	H.P. / L.P cut out arrangement		
3.10	Schematic diagram: To be enclosed in Manuals.		
<b>4</b>	Operating manuals containing Basic theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set



Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 3/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Condensing Unit Trainer:</b> The trainer is designed to understand theory, constructional and operational features of condensing Unitsuitable for 1-Phase, 230 V, 50 Hz AC supply. (MCB's to be used in place of fuses).		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	750K.Cal/hr	
1.2	Compressor mounted	Hermetically sealed compressor with all electrical accessories	
<b>2</b>	<b>Purpose</b>		
2.1	To study & identify components of Condensing Unit and state of its use.		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Compressor: Hermetically sealed of reputed make		
3.2	Air cooled condenser		
3.3	Facility to attach the unit to an evaporator of suitable capacity.		
3.4	Schematic Diagram to be enclosed in Manuals		
3.5	Pressure gauges, panel mounted, back connection type, Pressure gauge at the suction and discharge of the compressor, one no. each		
3.6	Temperature Indicator (8 point) with 4 nos of Pt100 sensors		
3.7	Refrigerant: R134a		
3.8	Facility to charge and recover refrigerant gas very easily using a flared connection and a valve.		
3.9	Structure: Made of suitable MS square section & Powder coated.		
<b>4</b>	Operating manuals containing Basic theory, Procedure to conduct experiments and troubleshooting		3 Sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 4/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Cut Section Model:</b> The model has to be made out of used compressors. Section to take in such a way as to expose maximum parts such as piston, cylinder, motor winding, etc. are displayed. This helps show the internal constructional details of the compressor. Exposed parts are suitably painted with a colour code. Sections should be anodized.		3 No.s (1 No. each type)
<b>1</b>	<b>Major specifications</b>		
1.1	Type-1	<b>Hermetically Sealed Compressor</b>	
1.2	Type-3	<b>Open type compressor</b>	
1.3	Type-2	<b>Semi-sealed compressor</b>	
<b>2</b>	<b>Purpose:</b> To study & identify components of Refrigeration Compressor Unit.		
<b>3</b>	Model shall be mounted on a structure made of suitable MS square section & Powder coated.		
<b>4</b>	Operating & Parts manuals		3 Sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 5 & 6/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Heat Exchanger:</b> The trainer is designed to understand theory, constructional and operational features of different types of heat exchangers suitable for 1-Phase, 230 V, 50 Hz AC supply. (MCB's to be used in place of fuses).		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Type – 1	Shell and Tube Type Heat exchanger	
1.2	Type – 2	Tube in tube type heat exchanger	
1.3	Flow Arrangement	Hot and cold water arrangement with pumps	
1.4	Two different type of heat exchangers can be used to carry out experiments using common mother unit		
1.5	One heat exchanger is supplied for assembly and disassembly practice.		
<b>2</b>	<b>Purpose</b>		
2.1	To state and identify different types of heat exchangers		
2.2	To identify components of a heat exchanger		
2.3	To carry out servicing and preventive maintenance of a heat exchanger		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Mother unit: The unit should consists of, Glass tube Rotameter 0 to 1000 LPH for hot and cold-water flow rate measurement, 1 no. each 8 point Digital temperature indicator with sensors at suitable locations to be provided. Sump tank of 40 lit capacity, MOC: SS 304, 16 SWG 1 No. Water circulation pumps: Centrifugal type, 0.25 HP, 100LPH, 2 nos. Make: Reputed Electrical water heater: 1 KW, in line type. Electrical control panel complete with necessary switches, wiring and digital display. Structure: Made of suitable MS square section & Powder coated.		
3.2	Shell and Tube Type Heat exchanger: Made in borosilicate glass with 3" diashell and tubes of 12mm dia 600mm long each. Area (0.5sq.m), Number of tubes 25, Connections for hot and cold water in shell and tubes respectively.		
3.3	Tube in tube type heat exchanger: MOC: Copper for inner pipe. Inner pipe diameter: 20 mm		
3.4	Piping: PPR with SS embedded threading		
3.5	Multi pass heat exchanger for assembly- disassembly practice: MOC: SS 304, Floating head (Pull through type) Shell and tube (1-2) type heat exchanger 3" diashell with copper tube ½" dia and 600mm length. number of tubes 25, segmental baffles 25% cut.		
3.6	Toolkit required to assemble- disassemble Multi pass heat exchanger and its three spare gasket set.		
3.7	Steel wire brush for cleaning inside the heat exchanger shell & Scraper for cleaning outside of tubes		
<b>4</b>	Operating manuals containing Basic Theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 7/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Refrigeration Tutor:</b> The trainer is designed to understand theory, constructional and operational features of refrigeration and to study its performance characteristics suitable for 1-Phase, 230 V, 50 Hz AC supply.(MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	1500 K.cal/Hr.	
1.2	Tonnage	0.5 Ton	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of an refrigeration unit		
2.2	To state need for eco-friendly refrigerant gas		
2.3	TO study of a typical refrigeration cycle		
2.4	Calculate COP at various loads		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Hermetically Sealed Compressor		
3.2	Expansion device: Thermostatic Expansion Valve		
3.3	Control chamber: Water tank of 20 lit capacity. MOC: SS, 16 SWG, inner as well as outer casing, with 40 mm insulation. This chamber has following facilities Arrangement to drain water Arrangement to house evaporator coil Arrangement to mount electrical heater Arrangement to house temperature Sensor		
3.4	Rotameter to measure refrigerant flow		
3.5	Evaporator: Water cooled type made of copper pipe		
3.6	Electrical Heater to load the system: 0.5 kW.		
3.7	Energy-meter for recording power consumption.		
3.8	Temperature Indicator (8 point) with Pt100 sensors.		8 No.s
3.9	Pressure gauges, panel mounted, back connection type		2 No.s
3.10	H.P. / L.P cut out		
3.11	Refrigerant: R134A		
3.12	Structure: Made of suitable MS square section & Powder coated.		
3.13	Structure size: 720 (W) X 900 (H) X 500 (D) approximately.		
3.14	Schematic Diagram to be enclosed in Manual.		
<b>4</b>	Operating manuals containing Basic theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 8/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Package Air Conditioner:</b> Designed to understand theory, constructional and operational features of package air conditioner and to study its performance characteristics suitable for 1-Phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	1500 K.cal/Hr.	
1.2	Tonnage	0.5 Ton	
1.3	Air Circulation	638 m <sup>3</sup> /Hr. approx.	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of an air-conditioning unit		
2.2	To state need for eco-friendly refrigerant gas		
2.3	To study of a typical air-conditioning unit.		
2.4	To study of cooling process		
2.5	To study of a typical air-conditioning cycle		
2.6	To calculate COP at various loads		
2.7	To study Psychometric charts		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Hermetically sealed Compressor		
3.2	Capillary		
3.3	Test chamber and ducting: The chamber will be made of MS powder coated sheet. There will be ducting in the ceiling (top) part of the chamber for cold air inlet. Removal (exhaust) ducting will be on all sides of the test chamber. The chamber will be of 3' x 3' x 3' or more. The test chamber will have a door. On the door a transparent window will be provided to view interior chamber. Houses sensors, thermostats and axial fan		
3.4	Rotameter to measure refrigerant flow rate		
3.5	Evaporator		
3.6	Electrical Heater to load the system: 0.5 kW with facility to vary the load		
3.7	Energy meter for recording power consumption		
3.8	Temperature Indicator (8 point) with sensors, 8 nos.		
3.9	Pressure gauges, 2 nos.		
3.10	Anemometer with digital indicator, ( Portable)		
3.11	Digital LH/ RH indicator		1 set
3.12	H.P. / L.P cut out		
3.13	Refrigerant: Eco-friendly R 134A.		
3.14	Control panel made of MS Structure		
<b>4</b>	Operating manuals containing Basic theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 9/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Automobile Air Conditioner Trainer:</b> The trainer is designed to understand theory, constructional and operational features of an automobile air conditioner and to study its performance characteristics suitable for 3-Phase, 400 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Model/ Make	Using original car air-conditioner components	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of automobile air-conditioning unit		
2.2	To state need for eco-friendly refrigerant gas		
2.3	To study of cooling process		
2.4	To study of a typical air-conditioning cycle		
2.5	To study Psychometric charts		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Car AC compressor –NEW Systems		
3.2	Electrical motor of ISI standard with VFD to vary the speed of the motor to simulate engine speed varying condition		
3.3	Wobble plate compressor mounting on brackets Capillary		
3.4	Evaporator		
3.5	Condenser		
3.6	AHU and Fan motor		
3.7	Hose tubes, receivers & expansion controls complete as per compressor		
3.8	Electric component & wiring harness		
3.9	Converter AC 230V to 12V DC		
3.10	Ammeter and Voltmeter		
3.11	Temperature Indicator (8 point) of Pt100 sensors.		8 Nos
3.12	Pressure gauges, panel mounted, back connection type		2 Nos
3.13	Electrical heater to load the system. Arrangement to vary the load.		
3.14	Structure: Made of suitable MS square section & Powder coated.		
<b>4</b>	Operating manuals containing Basic Theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 10/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Split Type Air Conditioning Tutor:</b> The trainer is designed to understand theory, constructional and operational features of split air conditioner and to study its performance characteristics suitable for 1-Phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	2000 K.cal/Hr.	
1.2	Tonnage	0.75 Ton	
1.3	Moisture removal	.5 Lit/hr	
1.4	Air Circulation:	430 m3/hr approx.	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of a split air-conditioning unit		
2.2	To study typical air-conditioning unit.		
2.3	To study cooling process		
2.4	To study the Summer, Winter and Monsoon air-conditioning process		
2.5	To study dehumidification and cooling process		
2.6	To calculate COP at various loads		
2.7	To study Psychometric charts		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Hermetically sealed Compressor		
3.2	Capillary		
3.3	Control chamber and ducting houses sensors, thermostats and evaporator unit		
3.4	Rotameter to measure refrigerant flow		
3.5	Measuring vessel to measure water condensed at dew point conditions		
3.6	Evaporator unit		
3.7	Electrical Heater 0.5kW to load the system.		
3.8	Humidifier: Steam generation by using electrical heater		
3.9	Energy-meter for recording power consumption		
3.10	Temperature Indicator (8 point) with sensors		8Nos
3.11	Pressure gauges		2 Nos
3.12	Anemometer with digital indicator( Portable)		
3.13	Digital RH indicator		2 Nos
3.14	H.P. / L.P cut out		
3.15	Refrigerant Suitable for: R22/R134a		
3.16	MS test chamber with Acrylic door		
3.17	Control panel made of MS structure		
<b>4</b>	Operating manuals containing Basic Theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 11/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Air Conditioning Tutor:-</b> Designed to understand theory, constructional and operational features of air conditioner and to study its performance characteristics suitable for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	1500 K.cal/Hr.	
1.2	Tonnage	0.5Ton	
1.3	Moisture removal	0.25 Lit/hr	
1.4	Air Circulation:	320 m3/hr approx.	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of an air-conditioning unit		
2.2	To state need for eco-friendly refrigerant gas		
2.3	Study of a typical air-conditioning unit.		
2.4	Study of cooling process		
2.5	Study of Summer, Winter and Monsoon air-conditioning process		
2.6	Study of dehumidification and cooling process		
2.7	Study of a typical air-conditioning cycle		
2.8	To calculate Heat balance at evaporator, condenser and the overall system		
2.9	To calculate COP at various loads		
2.10	To study Psychometric charts		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Hermetically sealed Compressor		
3.2	Capillary		
3.3	Control chamber and ducting houses sensors, thermostats and axial fan		
3.4	Rotameter to measure refrigerant flow		
3.5	Measuring vessel to measure water condensed at dew point conditions		
3.6	Cooling coil evaporator		
3.7	Electrical Heater to load the system –0.5 kW with facility to vary the load.		
3.8	Humidifier: Steam generation by using electrical heater		
3.9	Energy-meter for recording power consumption		
3.10	Temperature Indicator (8 point) with sensors		6Nos
3.11	Pressure gauges		4 Nos
3.12	Anemometer with digital indicator, ( Portable)		
3.13	Digital LH/RH indicator		1 set
3.14	H.P. / L.P cut out		
3.15	Refrigerant: Eco-friendly Refrigerant, R134A		
3.16	MS test chamber with Acrylic door		
3.17	Control panel made of MS and foam sheet.		
<b>4</b>	Operating manuals containing Basic theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set



Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 12/2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Room Air Conditioning Tutor</b> :-Designed to understand theory, constructional and operational features of air conditioner and to study its performance characteristics suitable for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Tonnage	0.75 Ton	
1.2	Moisture removal Capacity	Suitably designed	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of an air-conditioning unit		
2.2	To state need for eco-friendly refrigerant gas		
2.3	Study of a typical air-conditioning unit.		
2.4	Study of cooling process		
2.5	Study of Summer, Winter and Monsoon air-conditioning process		
2.6	Study of dehumidification and cooling process		
2.7	Study of a typical air-conditioning cycle		
2.8	To calculate Heat balance at evaporator, condenser and the overall system		
2.9	To calculate COP at various loads		
2.10	To study Psychometric charts		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Hermetically sealed Compressor		
3.2	Capillary		
3.3	Control chamber and ducting houses sensors, thermostats and axial fan		
3.4	Rotameter to measure refrigerant flow		
3.5	Measuring vessel to measure water condensed at dew point conditions		
3.6	Cooling coil evaporator		
3.7	Electrical Heater to load the system –0.5 kW with facility to vary the load.		
3.8	Humidifier: Steam generation by using electrical heater		
3.9	Energy-meter for recording power consumption		
3.10	Temperature Indicator (8 point) with sensors		6Nos
3.11	Pressure gauges		4 Nos
3.12	Anemometer with digital indicator, ( Portable)		
3.13	Digital LH/RH indicator		1set
3.14	H.P. / L.P cut out		
3.15	Refrigerant: Eco-friendly Refrigerant, R 134A		
3.16	MS test chamber with Acrylic door		
3.17	Control panel made of MS structure		
<b>4</b>	Operating manuals containing Basic Theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 124 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Evacuating &amp; Refrigerant Charging Station</b> - Designed to understand theory, constructional and operational features of the system and to study its performance characteristics for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses).		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Pump type	Vacuum Pump	
1.2	Pump construction	Two Stage Rotary pump with gas ballast & anti suck back.	
1.3	Capacity upto Vacuum can be handled	1000 microns of Hg	
1.4	Other important mountings	Graduated charging cylinder	
<b>2</b>	<b>Requirements of the System</b>		
2.1	All mountings such as Manifolds, valves, gauges and all necessary isolating valves shall be suitable to the system.		
2.2	All necessary arrangements has to be made for measurement of evacuated & charged systems such as weighing machine, Temperature gauge, Pressure gauge & etc.		
2.3	All safety mountings has to be mounted on the system against leakage of Refrigerants.		
2.4	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.		
2.5	All the Gauges, Valves, Manifolds shall be of Reputed make		
<b>3</b>	Operating manuals containing basic theory, procedures to carry out the evacuation & Charging the Refrigeration system.		3 sets
<b>4</b>	Colour	Standard Colour	
<b>5</b>	Recommended spares for 5 years of normal Operation	Item wise quantity with price to be provided	1 set
<b>6</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 126 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Two Stage Rotary Vacuum Pump</b> - Designed to understand constructional and operational features of the system and to study its performance characteristics for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses).		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Pump type	Two Stage Water-Ring type pump	
1.2	Capacity	60-100 LPM (Approx.)	
1.3	Evacuation Capacity	50 microns of Hg	
1.4	Other important mountings	gas ballast anti suck valve	
<b>2</b>	<b>Requirements of the System</b>		
2.1	All mountings such as valves, gauges shall be suitable to the Pump design.		
2.2	All necessary arrangements has to be made for measurement operational parameters such as Pressure gauges, Temperature gauges & etc.		
2.4	All the Gauges, Valves shall be of Reputed make		
<b>3</b>	Operating manuals containing basic theory & procedures to carry out the operations		3 sets
<b>4</b>	Colour	Standard Colour	
<b>5</b>	Recommended spares for 5 years of normal Operation	Item wise quantity with price to be provided	1 set
<b>6</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 137 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Window Air Conditioner</b> - Designed to understand constructional and operational features of Window Air Conditioner and to study its performance characteristics suitable for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	3000 K.cal/Hr.	
1.2	Tonnage	1 Ton	
1.3	Compressor Capacity	12000 BTU/Hr	
1.4	Air Circulation:	500 CFM	
1.5	Efficiency Ratio	10 EER – BTU/Hr/W	
1.6	Refrigerant suitable for	R 22	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of an Window air-conditioning unit		
2.2	Study of cooling process		
2.3	Study of dehumidification and cooling process		
2.4	Study of a typical air-conditioning cycle		
<b>3</b>	<b>Requirements of the System</b>		
3.1	Hermetically sealed Compressor		
3.2	Auto air swing evaporator : Blue fins		
3.3	LCD Operating panel display		
3.4	Charged - Ready to work condition		
3.5	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.		
<b>4</b>	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 141 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Ice Candy Unit</b> - designed to understand theory, constructional and operational features of Ice Candy Unit and to study its performance characteristics suitable for Single Phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Capacity	1500K.cal/Hr.	
1.2	Tonnage	0.5 Ton	
1.3	Refrigerant suitable for	R 404A	
1.4	Minimum Temperature to achieve	- 18 °C	
<b>2</b>	<b>Purpose</b>		
2.1	To identify components of a Ice Candy Unit		
2.2	To study the process		
2.3	To calculate COP at various loads		
<b>3</b>	<b>Requirements of the System</b>		
3.1	Hermetically sealed Reciprocating Compressor		
3.2	Condenser – Air cooled type with fan		
3.3	Evaporator – Copper coil immersed into tank.		
3.4	H.P. / L.P cut out		
3.5	Liquid line drier		
3.6	Accumulator		
3.7	Temperature Indicator s		
3.8	Pressure gauges		
3.9	Thermostatic Expansion valve & Solenoid valve to control candy mould box		
3.10	SS tank, mould box, candy with puff insulated SS body, agitator motor etc...		
3.11	Control panel shall consist of temperature indicator, Thermostat, Pressure Gauges, Safety controls, Digital Voltmeter, Digital Ammeter & other controls.		
<b>4</b>	Operating manuals containing basic theory, Procedure to conduct experiments and troubleshooting		3 sets
<b>5</b>	Colour	Standard Colour	
<b>6</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>7</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 142 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Air Conditioning plant - Working Trainer Model Simulator</b> with all controls including humidity control suitable for 3 Ph, 400V, 50Hz AC Supply (MCBs are to be used in place of fuses)		1 No.
<b>1</b>	<b>Major specifications</b>		
1.1	Type	Direct & indirect water chiller	
1.2	Capacity	6000 k.cal/hr	
1.3	Dimensions (L x D x H)	900 L x 750 D x 900 H mm	
<b>2</b>	<b>Purpose</b>		
2.1	Experimental Air-conditioning plant to conduct experimental to determine the co-efficient of performance of the unit		
<b>3</b>	<b>Required Components in the System</b>		
3.1	Compressor : 3 ton hermetically sealed reciprocating compressor		
3.2	Water cooled condenser: Shell and tube type		
3.3	Tube material: 19mm OD integrally finned copper tube 19TPI		
3.4	Overall size : 220 D x 790 mm		
3.5	Water in / out 1 " BSP		
3.6	Evaporator: Aluminum fin bonded to copper tubes		
3.7	Blower size: 300 x 300 mm		
3.8	Motor Rating: 0.40 KW		
3.9	Refrigerant : R-22		
3.10	Water cooling tower complete with fan		
3.11	Control: HP/LP cutout switch		
3.12	Complete installation & Gas charging with running condition		
3.13	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting		3 sets
3.14	Colour - Standard		
<b>4</b>	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
<b>5</b>	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 143 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Condensing unit with open type compressor air cooled condenser</b>	controls etc suitable for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)	1 No.
1	<b>Major specifications</b>		
	<p>Condensing unit with open type compressor air cooled condenser. Compressor: Open reciprocating Type, belt driven, Cap 1500k.cal/hr. Refrigerant R-22,, R-134a,or CFC free valve Suction &amp; discharge service valve, Compressor Motor 2HP, 1Ph, 230V, 60Hz, AC. Condenser size: 16" x 16" - 4 row Internally grooved copper 3/8" tubing with aluminium air fins -side, top and bottom plates of 16SWG. Aluminium condenser Fan motor 1/5HP, 1Ph, 230V, 60Hz,AC, condenser fan blade 14" diameter of Aluminium, Receiver suitable with angle valve 2 nos. (Inlet &amp; Outlet), Cooling coil size 13"x 13" - 3 row-internally grooved copper tube 3/8"with aluminium air fins - side, top and bottom plates of 16SWG aluminium, or suitable for AC type cooling coil with metering device thermostatic expansion valve. Acrylic duct 14"x14" - 4 ft long, 8 mm thick, with orifice plate, inclined manometer, axial fan, air heater, steam inlet facility, dry bulb and wet bulb temperature sensors at inlet &amp; outlets. Suitable insulation of Armocol provided wherever necessary. Rotometer to measure the flow rate of liquid refrigerant and bypass the rotometer - 1 no. Air flow measurement digital Anemometer control panel which consists of the following items mounted on it: 8 channel programmable digital scanner for temperature indication of various points. Temperature controlling thermostat, DOL starter switch for compressor, Switches and indication lamps for steam generator, Axial flow fan, Heater, Mains HP and LP cut off switch, Digital ammeter, Voltmeter, 1 no each, Pressure gauge 4 nos, process line diagram. The unit to be able to perform the following measurement/practical trade. 1)Dry bulb &amp; wet bulb temperature of Air inlet &amp; outlet of cooling coil duct. 2) Suction &amp; Discharge pressure of compressor. 3) Inlet &amp; outlet pressure of cooling coil. 4) Flow rate of refrigerant at liquid line. 5) Pressure drop at duct inlet (Orifice). NOTE: The unit should be complete with gas charging and working condition of AC system. The whole unit mounted on painted/powder coated MS steel frame.</p>		
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated. Size: 3' x 3' x 3'		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
6	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.			
Ref No. Enclosure – 144 / 2 of Annex II			
Sl. No.	Item	Brief Specification	Qty.
	<b>Condensing unit with open type compressor evaporator condenser</b> controls etc controls etc suitable for Single phase, 230 V, 50 Hz AC supply. (MCBs to be used in place of fuses)		1 No.
1	<b>Major specifications</b>		
	Condensing unit with open type compressor evaporator condenser. Compressor: Open reciprocating Type, belt driven, Cap 1500 k.cal/hr. Refrigerant R-22,, R-134a,or CFC free valve Suction & discharge service valve, Compressor Motor 2HP, 1Ph, 230V, 60Hz, AC. Condenser size: 14" x 14" - 4 row Internally grooved copper J" K tubing with aluminium air fins -side, top and bottom plates of 16SWG Aluminium. Receiver suitable with angle valve 2 nos. Cooling coil size 13"x 13" - 3 row-internally grooved copper J" K tubing with aluminium air fins - side, top and bottom plates of 16 SWG aluminium, or suitable for AC type cooling coil with metering device thermostatic expansion valve. Cooling coil motor : 1/10 HP , 1Ph, 230V, 60Hz, AC, with 15" aluminium blade. Evaporative Type: Suitable evaporative condenser cooling tower made of FRP or 8 mm thick transparent acrylic with drift eliminator, spray nozzle, inlet and outlet wet bulb, dry bulb temperature sensors. Evaporator blower: Suitable for 1Ph, 230V, 60Hz, AC.(Cooling Tower - Forced draft type)		
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 5 years of normal Operation	Itemwise quantity with price to be provided	1 set
6	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set



**LOT 25 – HEAT TREATMENT EQUIPMENT**

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.		
Item : Hardening Furnace		
Ref: Sl. No. 66 of Annex 6		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
4	<b>Electrically Heated Hardening Furnace</b> with electrical equipment suitable for 3 phase 400V, 50 Hz AC supply	1
<b>4.1</b>	<b>Major Specifications</b>	
4.1.1	Useful Chamber Size	≥ W 450 mm x B 600 mm x H 600 mm
4.1.2	Power Rating	≥ 42 Kw
4.1.3	Power Supply	400V, 50 Hz AC supply
4.1.4	Temperature	≥ 1000 <sup>o</sup> C
4.1.5	Operating Temperature	≥ 950 <sup>o</sup> C
4.1.6	Type of Heating Element	Coil Type, Ni/Cr 80/20 Element
<b>4.2</b>	<b>Detailed Specifications</b>	
4.2.1	<b>Shell</b> : The shell of the furnace will be fabricated using MS sheets conforming to IS226 of 5 mm thickness. The shell will be adequately reinforced with ISA 50 x 50 mm angles of the same quality. The furnace shell will be floor mounting type and adequately supported by channels. All MS parts be sandblasted, cleaned, painted with primer and given two coats of heat resistant aluminum paint.	
4.2.2	<b>Insulation</b> : The sides of the furnace will be lined ceramic fiber modules of density 160 kg/m <sup>3</sup> (to be made from ceramic fiber blankets of density 128 kg/m <sup>3</sup> ) backed by ceramic fiber blankets of density 128 kg/m <sup>3</sup> . The bottom of hearth will be lined with high alumina refractory (alumina > 60%) followed by one layer of Insulation bricks conforming to IS 2042 Type II and followed by one layer of bricks conforming to IS2042.	
4.2.3	<b>Retort</b> : The furnace retort is made of not less than 4 mm thick AISI SS310 Grade Stainless Steel Plate. Bottom of the retort is dish ended. Mouth of the retort is provided with Mild steel plate which rests on the furnace. We have provided water free collar retort for easy maintenance. Expansion provision for retort is provided inside the furnace.	
4.2.4	<b>Elements</b> : The heating elements will be out of Kanthal A1 strip type configuration. The element will be designed for a watt loading of 1.5 to 2 w/cm <sup>2</sup> . This will be mounted on to the ceramic fiber lining with suitable refractory hooks. The element will be easily replaceable during maintenance.	
4.2.5	<b>Control Panel</b> : The control panel will be a stand-alone type. It will be suitable for 3 Phase, <b>400 V</b> , 50 Hz supply. The control panel will be fabricated out of 2 mm mild steel sheets and will be suitably treated for corrosion resistance and will be powder coated with attractive colour. MCB's will be used in place of fuses.	
4.2.6	<b>Temperature Control</b> : Two thermocouples will be used. One K Type (Nickel chromium / Nickel Aluminum) thermocouples will be used for measurement and control and the other connected to the On/Off controller. The thermocouple will be sheathed with high alumina refractory.  The digital indicating On/Off controller will be provided to control the temperature in the furnace manually. The controller will have open thermocouple sensor as well as cold junction compensation as standard. In addition, another controller will be programmable PID Type give 4-20 mA 0-5V output to control the thyristor power pack. This will ensure that the temperature inside the furnace can be controlled with tight tolerance. The thermocouple will be connected to the controller using a compensating cable to ensure there is no loss due to resistance of the cable.	
4.2.7	<b>Sealing Arrangement</b> : The inner chamber accommodates a cylindrical retort of 5 mm thick AISI 310 grade stainless steel with opening and a wide mild steel flange of 200 mm width integrally welded at the top. The furnace is finished in heat resistant aluminum and the control panel is powder coated. A separate gas penal with required meters and valves to be provided.	
4.2.8	<b>Indicating and Safety</b> : The furnace will have indication for Power On, Heater On, and Thyristor On. There will be a door limit switch to cut off the supply to both Methanol and heater on opening the door. A blind controller will be provided as a back up to the main indication controller. The entire control system will	

**Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.**

**Item : Hardening Furnace**

**Ref: Sl. No. 66 of Annex 6**

**Qty : 1 No.**

**TECHNICAL SPECIFICATION**

Sl. No.	Description	Qty
	be supplied with a separate control transformer to ensure that the control system get a steady power supply so as to prevent damage to the sensitive control systems.	
4.2.9	<b>Air Circulation</b> : A roof mounted impeller manufacture out of SS 310 grade material will be provided. The impeller will be fixed using heavy-duty taper roller bearing and belt-pulley driven.	
4.2.10	<b>Cooling System</b> : Cold air blower will be provided. This blower will have an inlet vent to the atmosphere, which will be sucked and supplied, into the chamber of cooling.	
4.2.11	<b>Fixture</b> : A suitable fixtures for mounting components along with 15 numbers of suitable hooks made out if SS 310 grade material will be provided.	
4.2.12	<b>Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore</b>	3 sets (Total)
<b>4.3</b>	<b>Colour: Standard</b>	
<b>4.4</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> Please indicate the detailed list of spares with individual prices	
<b>4.5</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
4.5.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
4.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	

**LOT 25 Heat treatment Equipment**

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.		
Item : Tempering Furnace		
Ref: Sl. No. 67 of Annex 6		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>5</b>	<b>Tempering Furnace</b> with electrical equipment suitable for 3 phase 400V, 50Hz AC supply.	<b>1</b>
<b>5.1</b>	<b>Major Specifications</b>	
5.1.1	Chamber size	Dia 600 x 750 H mm
5.1.2	Maximum Temperature	≥ 800 ° C
5.1.3	Heating Method / Element	Electrical / Ni Chrome 80/20
5.1.4	Power	21 KW
5.1.5	Temperature controller	Manual control system and additional programmable Digital Temperature Controller interfaced with Thyristor power pack.
5.1.6	Insulation	Ceramic fiber modules backed with ceramic fiber blankets –250mm
5.1.7	Baffle	SS 310-3mm
5.1.8	Air circulation	Air circulation fan of 2 HP.
5.1.9	Control panel	Floor mounting control cubicles.
5.1.10	Cooling	By Blower
5.1.11	Door	Top lifting type door
5.1.12	S S Hooks	15 Nos.
5.1.12	Shell	The shell of the furnace will be fabricated using MS sheets conforming to IS 226. The shell will be adequately reinforced with ISA 50x50 mm angles of the same quality. The furnace shell will be floor mounting type and adequately supported by channels.
5.1.13	Door	The door will be fabricated out of MS Plate 5 mm thickness lined with ceramic fiber blankets. The door will be top lift, swing type and will be of heavy construction and at the same time well balanced to ensure smooth operation. SS310 inside.
5.1.14	Insulation	The sides of the furnace will be lined ceramic fiber modules backed by ceramic fiber blankets. The hearth will be lined with 75 mm of High alumina refractory (alumina > 60%) followed by one layer of Insulation bricks conforming to IS 2042 Type II and followed by one layer of Insulation bricks conforming to IS 2042 Type III (115 mm/layer).
5.1.15	Baffle	A baffle will be manufactured out of 3.00 mm heat resistant steel conforming to AISI 310.
5.1.16	Elements	The heating elements will be out of Ni chrome configuration. The element will be designed for a watt loading of 1.5 to 2 w/cm <sup>2</sup> . This will be mounted on to the ceramic fiber lining with suitable refractory hooks. The element will be easily replaceable during maintenance. The terminal rods of the elements will be three times the cross-section to ensure good conductivity and low heat dissipation to the bus bars.
5.1.17	Control Panel	The control panel will be a stand-alone type. It will be suitable for 3 phase, 400V, and 50 Hz supply. The control panel will be fabricated out of 2 mm mild steel sheets

**Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.**

Item : Tempering Furnace

Ref: Sl. No. 67 of Annex 6

Qty : 1 No.

**TECHNICAL SPECIFICATION**

Sl. No.	Description	Qty
	and will be suitably treated for corrosion resistance and will be powder coated with attractive colour. MCB's will be used in place of fuses	
5.1.18	Temperature Control  Two thermocouples will be used. One K Type (Nickel chromium / Nickel Aluminum) thermocouple will be used for measurement and control and the other connected to the On/Off controller. The thermocouple will be sheathed with high alumina refractory.  The digital indicating on/off controller will be provided to control the temperature in the furnace manually. The controller will have open thermocouple sensor as well as cold junction compensation as standard. In addition another controller will be programmable PID type give 4-20 mA 0-5V output to control the thyristor power pack. This will ensure that the temperature inside the furnace can be controlled with tight tolerance. The thermocouple will be connected to the controller using a compensating cable to ensure there is no loss due to resistance of the cable.	
5.1.19	Indication and Safety  The furnace will have indication for Power On, Heater On, Thyristor On. There will be a door limit switch to cut off the supply to the heater on opening the door. A blind controller will be provided as a back up to the main indication controller. The entire control system will be supplied with a separate control transformer to ensure that the control systems get a steady power supply so as to prevent damage to the sensitive control systems.	
5.1.20	Air Circulation  A roof mounted impeller manufacture out of AISI 310 grade material will be provided. The impeller will be fixed using heavy-duty taper roller bearing and belt-pulley driven. The motor rating will be 2 HP.	
5.1.21	Cooling System  Cold air blower will be provided with the blower. This blower will have an inlet vent to the atmosphere, which will be sucked and supplied, into the chamber for cooling. The blower will be rated at 1hp.	
5.1.22	Hooks  15 numbers of suitable hooks made out of AISI 310 grade material will be provided.	
5.1.23	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore  3 sets (Total)	
<b>5.2</b>	<b>Colour: Standard</b>	
<b>5.3</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> Please indicate the detailed list of spares with individual prices	
<b>5.4</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
5.4.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.		
Item : Quenching Tank (Water)		
Ref: Sl. 68 of Annex 6		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>6</b>	<b>Water Quenching Tank</b> Equipment suitable for 400V, 3 Phase, 50H AC supply and Control Voltage 230V, 1 Phase AC supply. MCB's to be used in place of fuses.	<b>1</b>
<b>6.1</b>	<b>Technical Specifications</b>	
6.1.1	SS Tank Size	600 L x 600 W x 600 H mm
6.1.2	Method of agitation	Compressed air -built
6.1.3	Power of Motor	0.75 KW
6.1.4	Frame	A frame fabricated out of angles of size ISA 50 x 50 x 6 mm with inner dimension of 750 mm width x 1000 mm length. The frame will have additional reinforcement using angles of sizes ISA 50 x 50 x 6 mm for structural rigidity. This frame will be supported on channels of size ISMC 100 x 50 in box type construction to a height of 150 mm. The box will be welded to a flange of thickness 8 mm of size 250 mm X 250 mm
6.1.5	Tank	The tank will be of size 600 mm length x 600 mm Width x 600 mm Height. The tank will be fabricated out of mild steel sheet of thickness 3.15 mm (10 SWG) conforming to AISI 304. The tank will have minimum No. of welded joints. The top portion of the tank will have a flange of width 50 mm. The tank and the flange will be welded and supported with gussets. The flange will also have 4 Nos of lifting hooks.
6.1.6	Agitation	The tank will house compressor powered by a motor of capacity of 0.75 KW. This compressed air will be directed to the bottom of the tank using SS tubes with holes. This will ensure agitation and uniformity in temperature of the bath.
6.1.7	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>6.2</b>	<b>Colour: Standard</b>	
<b>6.3</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> Please indicate the detailed list of spares with individual prices	

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.		
Item : Electrode Heating Chamber		
Ref: Sl. No. 28 of Annex 9		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>3</b>	<b>Electrode Heating Chamber</b> with electrical equipment suitable for 3 phase 400V, 50 Hz AC supply	<b>1</b>
<b>3.1</b>	<b>Major Specifications</b>	
3.1.1	Chamber size	Minimum 450 D x 600 W x 600 H mm
3.1.2	Operating Temperature	≥ 200° C
3.1.3	Power rating	≥ 6 KW
3.1.4	Air Circulation	0.75 KW motor
3.1.5	Temperature control	Digital temperature control
3.1.6	Insulation	100 mm Mineral wool
3.1.7	No. of Trays	3 Nos.
3.1.8	Door	Front opening hinged door
3.1.9	Shell	The shell will be double walled construction. The outer shell of the oven will be fabricated using M.S. Sheets confirming to IS 226. The shell will be adequately reinforced with ISA 50 x 50 mm angles of the same quality. The inner wall will be fabricated out of stainless steel confirming to IS 2062. This will be adequately reinforced for rigidity. All MS parts will be sandblasted, cleaned, painted with primer and powder coated.
3.1.10	Door	The door will also be double walled, double door construction. The doors will be front opening type and supported on heavy hinges.
3.1.11	Insulation	The gap between the outer and inner wall will be insulated using 100mm mineral wool insulation.
3.1.12	Recirculation fan	A recirculation fan will be provided on the roof of the oven. The impeller will be fabricated out of AISI 304 material and will be driven by a 0.375 KW motor. The motor shaft will be fixed to the roof using a heavy-duty taper roller bearing and the motor shaft will be coupled to it. The fan will be designed to deliver 5 air changes per hour and ensure uniform distribution of hot air.
3.1.13	Elements	The heating element will be rated for ≥ 6KW. The heating elements will be finned air heaters of Nichrome 80/20 wire. The element assembly will be easily replaceable type and access will be provided for easy removal and fixing of the heating element. The element wire size and length will be designed to ensure the it work in black heat and designed to dissipate 3-4 w/cm <sup>2</sup> for long life.
3.1.14	Control system	The control panel will be fixed to the chamber and will be suitable for 3 phase, 400 V, 50 Hz supply. The oven will have a digital indication controller. The controller will be On/Off type and will fire a contactors connected to the heating element. MCB's will be used in place of fuses
3.1.15	Indication and safety	The oven will have indication for Power on, Heater on, Fan on. There will be a door limit switch to cut off the supply to the heater on opening the door. A blind controller will be provided as a back up to the main indication controller. The entire control system will be

<b>Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.</b>		
<b>Item : Electrode Heating Chamber</b>		
<b>Ref: Sl. No. 28 of Annex 9</b>		<b>Qty : 1 No.</b>
<b>TECHNICAL SPECIFICATION</b>		
Sl. No.	Description	Qty
	supplied with separate instrument transformer to ensure that the control systems gets a steady power supply so as to protect the sensitive control systems from sudden surges.	
3.1.16	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>3.2</b>	<b>Colour: Standard</b>	
<b>3.3</b>	<b>Set of mechanical and electrical spare parts for 2 year normal operation.</b> Please indicate the detailed list of spares with individual prices	
<b>3.4</b>	<b>Items required for E&amp;C to be supplied with the machine:</b>	
3.4.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
3.4.2	Initial fill of Lubrication Oil packed in separate containers & sealed	

**LOT – 26 Refrigeration & Airconditioning Equipment**

<b>Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.</b>					
<b>Sl. No</b>	<b>Annex. Ref.</b>	<b>Description</b>	<b>Brief Specification</b>	<b>Detailed Specification</b>	<b>Qty</b>
1	157 of Annex 4	134A Refrigerant in cylinders with valves	FLORON Brand / Reputed Make 134A gas (Tetra Fluoro Ethane) in 10kg company sealed cylinder. Dupont Brand / Reputed Make 134A can 340 gms	Capacity - 10 Kg - 1 No. with test Certificate 340 gr. Disposable refrigerant Cans (Dupont / Floron) - 2 NO.s	2
2	192 of Annex 4	Accessories thormostatic expansion valve distributors, driers, (pencil solid core type etc.) accumulators, receivers, bellows type thermostat, HP Stat & LP Stat humidi stat, solenoid valves	DANFOSS make , Orifice No:3, R-22, Model: TX 2 Dryall / Denyo Make MB Make( for 134A gas)10grams,15grams, 25grams Annapurna Make Danfoss make KP5 Model Danfoss make KP1 Model Danfoss make KP15 Model Temptec thermo hygrometer clock	Thermostatic Expansion Valve with separating orifice (Removable Orifice) Danfoss Make; 5 Ton Capacity. Distributor(Refrigerant for 5 Ton) Drier : (Core type) for 5 Ton cap Accumulator:5 Ton capacity Liquid Reciever : 5 Ton cap Pencil type Drier; Bellow type Thermostat HP Cutout: Danfoss make LP Cutout : Danfoss make HP & LP Cutout (combined) with manual restart - Danfoss make Humidystat : Reputed make Solenoid Valve : 1/4" size	1
3	180 of Annex 4	Acid test kit		With acid resistant centrifugal pump 1/2 HP capacity	1
4	127 of Annex 4	Air Compressor two stage for oil less dry air with rust proof tank assemble heater and control	Max Pr. 10Kg/ sq.cm cap 45 Litre motor 1 HP		1
5	126 of Annex 4	Anemometer	Vane type	Reputed make	1
6	186 of Annex 4	Ball Valves service valves hand shut valves	1/4" to 7/8" Bava make hand shut off valve, service valve Threads protected	Reputed make	2



Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.					
Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
7	16 of Annex 4	Bending spring	External type for copper tube 3 to 6 mm. Dia		4
8	137 of Annex 4	Bottle Cooler	110 litre 1/6 HP	Voltas/Bluestar/Carrier make	1
9	28 of Annex 4	Box spanner	6.4 to 10 mm		2
10	183 of Annex 4	Brazing alloy rods for 1/4" to 7/8" tubes Cu to cu, Cu to steel, Cu to brass and appropriate fluxes	Copper Brazing rod Silver rod Brass rod	Cu - Cu: Cu alloy rod 2kg, 1/8" size CU - Steel: Silver 43% rod; 100 gr; 1.2mm dia Cu - Brass: Brass-Ni rod 1/4kg; 3mm dia	1
11	21 of Annex 4	Capillary plug gauge			2
12	175 of Annex 4	Circulating water pump (SMALL)	1/2 HP Capacity	Monoblock 1 Ph, 230V 50Hz, Reputed make	1
13	171 of Annex 4	Components of Car AC systems.	a) Wobble plate compressor with mounting brackets. b) Serpentine evaporator. c) Parallel flow condenser. d) Hoses, tubes, receive, expansion valve. e) Electrical components & wiring harness		1
14	37 of Annex 4	Compound gauge diameter 63 mm with recalibration set screw scale vacuum 76 mm pressure 15 Kg/Sq.cm		Airmaster make / Reputed Make with SS Body (-)30 to 150 PSI - 2 NO.s 0-300 PSI 2nos (Glycerene/Oil filled 1 No. each)	4
15	188 of Annex 4	Compressor tester for small hermetic compressor	Electrical panel with voltmeter, ammeter, relays and capacitor, MCB etc.	Reputed make	1
16	3 of Annex 4	Condensing Unit with hermetic compressor	Cap.500 Kcal/hr		1
17	135 of Annex 4	Deep freezer	165 Litre (-)18 Deg C 1/4 HP	Voltas/Bluestar make	1
18	129 of Annex 4	Descaling pump set	stainless steel impeller and housing complete with motor 1 HP and accessories.	Reputed make	1
19	124 of Annex 4	Dial thermometer remote controls armoured capillary dial 75 mm-50		Reputed make	2
20	165 of Annex 4	Dry N2 in cylinder with 2 stage regulator or commercial N2 in cylinder with drier unit and 2 stage regulator	Standard capacity - ISI standard	with Cylinder	1
21	193 of	Electrical accessories current		1 Ph, 230V, 50Hz, AC	1

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.					
Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
	Annex 4	& potential relays start & run capacitors, PTC,s overload protector relays contractor.		- Reputed make	
22	190 of Annex 4	Evaporator of direct cooled refrigerator with capillary heat exchanger	1 T capacity finned type evaporator		1
23	191 of Annex 4	Evaporator of Frost free refrigerator	200 -300litre capacity		1
24	173 of Annex 4	Fan coil unit with water valves	(2 & 3 way)	3 T capacity	1
25	169 of Annex 4	Filter driers for CFC-12 & HFC-134 A for repairs retrofits	3/8" size	Dryall make	8
26	155 of Annex 4	Fin straightener / Fin comb			42
27	163 of Annex 4	Fire Extinguisher powder type	5kg		2
28	13 of Annex 4	Flaring tool set with Swedging	Single for tube 4.7 to 16 mm OD	Rothenberger Make / Reputed Make	4
29	168 of Annex 4	Four way manifold with gauges		Rothenberger make / Reputed Make	1
30	40 of Annex 4	Gas leak detector for halogen gas	Gas leak detector using halogen gas	Rothenberger make / Reputed Make; 3gr/annum capacity	1
31	156 of Annex 4	HC refrigerant in cylinder/ disposable containers	Dupont 134a , 340 gms	Or Reputed Make	2
32	132 of Annex 4	Heating Kit with infra red bulb	150 watt capacity		1
33	189 of Annex 4	Hermetic compressor	1.5 Ton	Tecumseh make / Reputed Make	1
34	185 of Annex 4	i) Hermetic compressor	1/8 to 1/2 HP(approx) for use in repair work of appliances for CFCs and HFCs	Tecumseh make / Reputed Make	2
35	185 of Annex 4	ii) Hermetic compressor	For 134A	Tecumseh make / Reputed Make	3
36	44 of Annex 4	L-Allen Key set size	1.5 to 6.4mm		4
37	41 of Annex 4	Lapping plate	250x200mm		2
38	153 of Annex 4	Micron vacuum gauge	Capable of reading upto 20 microns		2
39	162 of Annex 4	No frost refrigerator 300 litre capacity using HC refrigerant	Frost free refrigerator, 2 door, 1Ph, 230V, 50Hz, AC	Voltas/Bluestar/LG/Samsung/Godrej Make	1
40	23 of Annex 4	Piercing plier 6-18 mm & Piercing valves both with access fittings		Reputed make	2
41	184 of Annex 4	Pilot tube & inclined tube manometer	500 m length, pilot tube, with fittings and inclined tube manometer, transparent acrylic scale.	from reputed mfrs.	1
41	22 of Annex 4	Pinch off plier / crimping plier tool	16 to 18 mm dia		2
42	19 of Annex 4	Pinch off tool	For copper tube 6 to 18 mm dia		4
43	80 of	Pipe bending tool	lever type with degree		1

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.					
Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
	Annex 4		indicator for tube OD 6.4 to 16 mm		
44	17 of Annex 4	Pipe cutter	Miniature for copper tube 6 to 18 mm dia		4
45	18 of Annex 4	Pipe cutter	With built-in reamer and space cutter for copper tube 3 to 32 mm		1
46	178 of Annex 4	Pipe threading dies & pipe vice			1
47	182 of Annex 4	Pop rivet gun		Reputed make	1
48	164 of Annex 4	Portable Air-LPG brazing kit with 2 Kg LPG cylinder, torches, hoses, standard make. a) With straight flame. b) With Cyclone / swirl jet flame.	Portable Air-LPG brazing kit with 2 kg LPG cylinder, torches, hoses - Standard make. 1) with straight flame. 2) With cyclone swirl jet flame.	Rothenberger/Reputed make	1
49	131 of Annex 4	Pressure testing tank with lighting arrangement pressure gauge (0-35 Kg / sq.cm) double stage	Suitable Pressure testing tank of SS 304 Grade 18 Gauge having TIG welded joints with lighting arrangements.	Pressure gauge 0-35 kg/cm <sup>2</sup> - double stage	1
50	36 of Annex 4	Pressure gauge diameter 63 mm with recalibration set screw scale vacuum 76 mm pressure			1
51	42 of Annex 4	Punch hole for cutting gasket	4.7 to 16 mm dia		4
52	187 of Annex 4	Quick couplers process tube adaptor	1/4" to 7/8"		2
53	20 of Annex 4	Ratchet spanner	6.4 mm sg reversible		4
54	144 of Annex 4	Reciprocating compressor with provision of capacity control etc, for demonstration	Capacity 9000 K. cal/hr semi hermetic / open type.	Best indian	1
55	158 of Annex 4	Recovery unit one each for CFC & R134 A refrigerants with recovering cylinders.	Consisting of 1/6 HP or required capacity compressor condenser with fan, oil separator, accumulator valve inlet and outlet for gas recovery, compound gauges and pressure gauges with LP, HP cut outs individual unit for CFC & HFC.	Rothenberger / Reputed make	1
56	195 of Annex 4	Recycling Unit		Suitable	1
57	181 of	Refractometer	Portable with lens		1

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.					
Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
	Annex 4				
58	121 of Annex 4	Refrigerant cylinder	Capacity 2.5 Kg		2
59	122 of Annex 4	Refrigerant cylinder	Capacity 30 Kg		2
60	161 of Annex 4	Refrigerator 170 litre using 134 A refrigerant	Single door refrigerator	Voltas/Bluestar/LG/Samsung/Godrej Make	1
61	133 of Annex 4	Refrigerator compressor type	165 litre	Voltas/Bluestar/LG/Samsung/Godrej Make	1
62	134 of Annex 4	Refrigerator compressor type	300 litres double door, double compressor system	Reputed make	1
63	159 of Annex 4	Reverse cycle AC/Heat pump	3000 K.cal/hr. Or 4500 K.cal/hr.		1
64	26 of Annex 4	Ring spanner set	4.7 mm to 16 mm		5
65	27 of Annex 4	Ring spanner set	19 mm to 31.8 mm		1
66	176 of Annex 4	Safety gloves, eye protection glasses			4
67	177 of Annex 4	Safety shoes			20
68	179 of Annex 4	Schraeder valve core removal tool			1
69	43 of Annex 4	Scissor gasket cutting stainless steel	length 25 mm		4
70	154 of Annex 4	Sensor thermometer	Digital		2
71	38 of Annex 4	Serviceman thermometer in metal case	-30 to + 30 Deg.C.		2
72	172 of Annex 4	Shell and tube Condenser	Small capacity. Reputed Make	1.5 Ton capacity with valves	1
73	174 of Annex 4	Shell and tube DX chillers (Small)	5 Ton capacity	Reputed make	1
74	39 of Annex 4	Sling psychrometer mounted on aluminum / plastic back scale -50 Deg. C to + 50 Deg.C			1
75	24 of Annex 4	Spanner double ended	4.7 mm to 16 mm		5
76	25 of Annex 4	Spanner double ended	19 mm to 31.8 mm		1
77	160 of Annex 4	Split type AC 4500 K.cal/hr	With indoor unit & outdoor units and electronic remote control	Voltas / Reputed make	1
78	130 of Annex 4	Spray outfit "V" twin with motor 1/2 HP delivery upto 120 Litre free air pressure upto 3 Kg/Sq.cm with spray gun and fitting			1
79	14 of Annex 4	Swedging tool	Punch type set of size, for tube 4.7 to 16 mm OD		4
80	15 of	Swedging tool	Screw type, with adapter		1

Project: Setting up of Indo-Myanmar Industrial training Centre, Monywa, Myanmar.					
Sl. No	Annex. Ref.	Description	Brief Specification	Detailed Specification	Qty
	Annex 4		set of size for tube 4.7 to 16mm OD		
81	45 of Annex 4	T-Allen key set size	5/32”L & 1/8”		4
82	166 of Annex 4	Trichlorethylene bottle	700 ml		1
83	167 of Annex 4	Two way manifold with gauges	Rothenberger make / Reputed Make, Standard Manifold set.		1
84	34 of Annex 4	Valve key-T-Handle	4.7 & 6.4 mm Sq		4
85	194 of Annex 4	Visi Cooler	165 litres	Voltas/Bluestar/Carrier make	1
86	139 of Annex 4	water Cooler	Storage type 40 litres capacity	Voltas/Bluestar/Carrier make	1
87	138 of Annex 4	Water Cooler	Instantaneous type - 40 litres capacity.	Voltas/Bluestar/Carrier make	1
88	128 of Annex 4	Scraper triangular blade removable			2
89	170 of Annex 4	Sealed ex-proof components for use in HC appliances: Thermostats Sealed OLPS solid state PTC's door switches lamp holders			4

# HMT (INTERNATIONAL) LIMITED

A Govt. of India Undertaking

(OPEN TENDER)

BID DOCUMENTS

FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL

for

Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar

## CORRIGENDUM No.1

(dt: 14 - 12 - 2018)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

*The Tender document issued against payment of Rs 2,500.00 (Rupees Two Thousand Five Hundred only) in the form of a Demand Draft / Digital Transfer towards cost of tender document. The Bidder who choose to download tender document from website must submit the Demand Draft towards cost of the Tender documents along with Technical bids in Envelope-I.*

### ATTENTION

- The following amendment has been made to the above mentioned tender with respect to all lots  
Bidders registered with NSIC will be exempted from payment of Tender cost and EMD on submission of Valid Registration Certificate**
- The following amendment has been made to the above mentioned tender with respect to Lot 4  
Clause 2.1.1 shall read as Work tank internal dimensions (WxDxH) :  $\geq 800 \times 500 \times 350$  mm**
- The following amendment has been made to the above mentioned tender with respect to ANNEXURE -1 of Section V-Commercial for Lots-3, 4, 5, 7, 8, 22, 23, 24 & 25**

For HMT (International) Limited,

Y K Vaish  
JT. GENERAL MANAGER, PROJECTS  
Contd...

**LOT - 3 Automatic Plastic Injection Moulding m/c**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 5 of Annex 6	Automatic Plastic Injection Moulding M/c	Locking force 180T, shot capacity 350 grams	1		
2	Sl. No 6 of Annex 6	Tooling with colour mixer, scrap grinder, Oven, cooling tower etc. for plastic injection moulding m/c		1		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMTI) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b>						
<b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	Total No. of Man days required

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

- The offer must be submitted as per above proforma. The Bidder may use his letterhead to submit his offer.
- No erasures or alternations in the text of the offer are permitted.
- Any correction made in offer shall be initialed by the Bidder.
- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT - 4 Electro Discharge M/c CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 2 of Annex 6	Electro Discharge M/c (EDM) CNC	Work Tank : 800 x 500 x 350 mm	1		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMTI) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b>						
<b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

- The offer must be submitted as per above proforma. The Bidder may use his letterhead to submit his offer.
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**The prices quoted should be most competitive**



**LOT - 5 Wire Cut EDM M/c CNC**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 3 of Annex 6	Wire Cut EDM CNC	Max Work piece: 350 x 450 x 200 mm	1		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMTI) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b>						
<b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

- Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

**NOTE**

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**LOT - 7 Hydraulic Press 100T**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 15 of Annex 6	Hydraulic Press	100T	1		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b>						
<b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

**\*Total should include the cost towards the following:**

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- Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

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**LOT - 8 Mechanical Press 10T & 100T**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.</b>						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 16 of Annex 6	Mechanical Press	10T	1		
2	Sl. No 17 of Annex 6	Mechanical Press	100T	1		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMTI) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b>						
<b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

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Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required

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Signature and seal of Authorized Signatory

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**LOT - 22 Mechatronics Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 1 of Annex 1 Mechatronics	PLC Trainer Kit	PLC Trainer Kit including Static & Dynamic Modules	1		
2	Sl. No 2 of Annex 1 Mechatronics	Digital Sensor Module		1		
3	Sl. No 3 of Annex 1 Mechatronics	Analog Sensor Module		1		
4	Sl. No 4 of Annex 1 Mechatronics	Dynamic Module	With Sensor Module and Relay Module	1		
5	Sl. No 5 of Annex 1 Mechatronics	Linear Transfer System	Complete workstation mounted on a aluminum profile plate with operating console, consisting of: Belt conveyor, Linear pick & place unit, Horizontal transfer unit, Transfer Module (Rotary Pick & Place Unit), 6 Station Rotary Carousal Table, Drilling module.	1		
6	Sl. No 6 of Annex 1 Mechatronics	Six Axis Robot	Articulated ROBOT - PC Controlled 6 Axis with pedestal base, 2.5 Kgs Payload capacity, Pneumatic Gripper, Robot Controller, Windows 98 based Robot Controlling software.	1		

7	Sl. No 7 of Annex 1 Mechatronics	Robot Application Experimental Kit	With experiment table, Pneumatic chuck, Pneumatic vice, Pick & Place- Vertical stacking & Horizontal Palletizing, assembly & dismantling, Gluing experiment kit, Testing bank of push button switches, Painting kit	1		
8	Sl. No 8 of Annex 1 Mechatronics	Integration of ROBOT with Automation	4 Axis Assembly Robotic ARM with Pallet & Robot Controller Software, Weighing & Palletizing System With integration of Robot with Complete Workstation Mounted on a Aluminium Profile Plate, Belt Conveyor, Rotary Pick & Place Manipulator, Weighing Module and PLC	1		
9	Sl. No 10 of Annex 1 Mechatronics	Mechatronics Software	For Basic Simulation	1 Lot		
			FOR Advanced simulation			
			Robotic Simulation			
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<p><b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMTI) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b></p>						
<p><b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b></p>						

**\*Total should include the cost towards the following:**

- a. Deputation of technical personnel for carrying out installation, commissioning, trials, training the customer's personnel in operation and maintenance of above equipment at project site in Myanmar.
- b. Necessary tools, fixtures, instruments, trial materials, consumables, etc, for Installation and training have to be sent along with the supplies.

Please indicate the man day rates considered for deputation on the format given below

SI No.	No. of Persons required for Installation of equipment	Total No. of Man days required

It is hereby certified that we have understood the instruction to Bidders and also the Terms & Conditions of Contract attached to the tender and have thoroughly examined and are aware of the nature of supplies/services required and our offer is to render supplies/services strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the terms & conditions of contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

We hereby offer to render supplies/ services as detailed above or such portion thereof as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of 90 days from the date of opening of tender. We shall be bound by the communication of acceptance dispatched within the prescribed time.

We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

Signature and seal of Authorized Signatory

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**LOT - 23 Apparel Manufacturing Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.

Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl No. 1 of Annex 2	Lock Stitch Machine	Motorised	20		
2	Sl No. 2 of Annex 2	Lock Stitch machine with UBT	Motorised	1		
3	Sl No. 3 of Annex 2	Button Hole Stitching Machine	Electronic	1		
4	Sl No. 4 of Annex 2	Button Stitching machine	Single needle lockstitch machine	1		
5	Sl No. 5 of Annex 2	Front Flacket Machine	Motorised	1		
6	Sl No. 6 of Annex 2	Cutting Machine	Motorised	1		
7	Sl No. 7 of Annex 2	Over Locking machine	2 needle 5 thread overlock machine	1		
8	Sl No. 8 of Annex 2	Over Locking machine	1 needle 3 thread overlock machine	1		
9	Sl No. 9 of Annex 2	Zig Zag Stitching machine	1 needle lock stitch machine	1		
10	Sl No. 10 of Annex 2	Iron Box	Vacuum based with steam generator	1		
11	Sl No. 13 of Annex 2	Work Aids	Basic yoke attach folder, hemming folder, placket folder etc.	1 Lot		
12	Sl No. 17 of Annex 2	Linen Tape	2 meters	20		
13	Sl No. 18 of Annex 2	Scissors	Assorted size	20 Sets		
14	Sl No. 19 of Annex 2	Needles	Assorted size	20 Sets		
15	Sl No. 20 of Annex 2	Fabric Cutting Aids	Assorted size	20 Sets		
16	Sl No. 21 of Annex 2	Buttons/Hooks/Pins etc.	Assorted size	20 Sets		
17	Sl No. 23 of Annex 2	Scissors	Brass handle 25 cms	20		
18	Sl No. 24 of Annex 2	Tailor's Square	Material: Wooden / Plastic Size: 300 mm x 600 mm	20		
19	Sl No. 25 of Annex 2	Leg Shaper	Material: Wooden / Plastic Size: 24"	20		
20	Sl No. 26 of Annex 2	Cloth Brush	Wooden handle 3" bristles 5"	20		
21	Sl No. 27 of Annex 2	Tracing Wheel	Wooden handle with iron wheel 3"	1		
22	Sl No. 28 of Annex 2	Measuring Tape	Material: Rubberised Linen Size: 150 cms	20		
23	Sl No. 29 of Annex 2	Seam Ripper	Size: 3" Plasti handle	20		

24	Sl No. 30 of Annex 2	Timble	Size: 1.5 cms open type steel	20		
25	Sl No. 31 of Annex 2	Tailor's card triangle	Size: 60 cm length (Card scale)	20		
26	Sl No. 32 of Annex 2	Tailors art curve	Material: Wooden / Plastic Size: 30 x 60 cm	20		
27	Sl No. 33 of Annex 2	French Curve	Material: Plastic Size: 6" to 8" set of 3	20		
28	Sl No. 34 of Annex 2	Button Hole Scissors	Material: Steel Size: 4"	5		
29	Sl No. 35 of Annex 2	Pinking Scissors	Material: Steel Size: 8"	5		
30	Sl No. 36 of Annex 2	Left hand scissors	Material: Steel Size: 25 cm	4		
31	Sl No. 37 of Annex 2	Shear	Brass handle 10" to 12", Size: 30 cm	2		
32	Sl No. 38 of Annex 2	Gum tape dispenser	For office use	1		
33	Sl No. 39 of Annex 2	Rubber Mat	Size: 300 x 1250 x 25 mm	4		
34	Sl No. 40 of Annex 2	Garment Sprayer	Material: Plastic, Size: 6"	4		
35	Sl No. 41 of Annex 2	Blanket of size 5" x 8" for padding as pressing table	Size: 5' x 8'	4		
36	Sl No. 42 of Annex 2	Milton cloth double width	Size: 2 meters Colour: Brown / Green	8		
37	Sl No. 53 of Annex 2	Consumable material	Stainless steel mesh left hand glove	10 nos		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
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<p><b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b></p>						

**\*Total should include the cost towards the following:**

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Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required



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We possess the necessary License from the Government of India/State Government for rendering the supplies / services.

Dated:.....

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**LOT - 24 Refrigeration & Air Conditioning Trainers**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	SI No 1 of Annex 4	Refrigeration Test Rig	Trainer	1		
2	SI No 2 of Annex 4	Walking Cooler	Capacity 3000Kcal/hr	1		
3	SI No 4 of Annex 4	Cut section model: Open, Semi-sealed and sealed compressor	Set of 3	1		
4	SI No 5 of Annex 4	Heat Exchanger Shell & Tube Type		1		
5	SI No 6 of Annex 4	Heat Exchanger tube in tube type		1		
6	SI No 7 of Annex 4	Refrigeration tutor		1		
7	SI No 8 of Annex 4	Package air conditioner		1		
8	SI No 9 of Annex 4	Automobile Air Conditioner		1		
9	SI No 10 of Annex 4	Split type Air Conditioner		1		
10	SI No 11 of Annex 4	Air conditioner		1		
11	SI No 12 of Annex 4	Room Air Conditioner		1		
12	SI No 123 of Annex 4	Evacuating & Refrigerant charging station comprising a) Rotary two stage vacuum pump and motor (With gas ballast & anti suck back) Manifold with gauges valves and capable of pulling vacuum upto 50 microns of Hg and with provision of connecting to a mic b) Graduated charging cylinder with provisions for temperature correction and all necessary isolating valves. II. Evacuating & charging station as above but fitted with weighing scale (upto 2 Kg in lieu of (b) above and with accuracy of +/-1 gram for c		1		
13	SI No 125 of Annex 4	Two stage rotary vacuum pump of capacity approx 60-100 1pm capable of evacuating to 50 microns of Hg and fitted with gas ballast anti suck valve and single phase motor.		1		
14	SI No 136 of Annex 4	Window air conditioning	Capacity 3000 K.cal/hr.	1		
15	SI No 140 of Annex 4	Ice Candy unit 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 model simulator.		1		
16	SI No 141 of Annex 4	Air conditioning plant direct and indirect water chiller complete with all controls etc. Capacity 15000 K. cal/hr or working trainer model/simulator, Alternatively a packaged Air conditioner of similar		1		
17	SI No 142 of Annex 4	Condensing unit with open type compressor air cooled evaporator condenser controls etc.	Capacity 3000 K. cal/hr	1		
18	SI No 143 of Annex 4	Condensing unit with open type compressor evaporator condenser controls etc	Capacity 3000 K.cal/hr	1		

A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>	
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>	
C	<b>18% GST applicable on (B)</b>	
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<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar.</b> (HMTI) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To & fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).		
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Please indicate the man day rates considered for deputation on the format given below

Sl No.	No. of Persons required for Installation of equipment	No. of Man days required

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**LOT - 25 Heat Treatment Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
1	Sl. No 66 of Encl 6	Hardening furnace		1		
2	Sl. No 67 of Encl 6	Tempering furnace		1		
3	Sl. No 68 of Encl 6	Quenching tank	600 x 600 x 600 mm	1		
4	Sl. No 28 of Encl 9	Electrode Heating Chamber		1		
A	<b>Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #</b>					
B	<b>Cost of inspection, trails &amp; extended international warranty @ 6% on (A)</b>					
C	<b>18% GST applicable on (B)</b>					
D	<b>Total Cost towards inspection, trails &amp; extended international warranty with 18% GST i.e. (D) = (B) + (C)</b>					
E	<b>Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)</b>					
<b># The above Cost shall include E&amp;C and initial training of customer's personnel in operation and maintenance for above equipment at project site in Myanmar. (HMT(I) shall arrange to provide, free furnished bachelor's accommodation, local transport and necessary assistance in getting VISA for the Technical Personnel deputed to site in Myanmar. To &amp; fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).</b>						
<b>* Total cost of equipment including I &amp; C in Indian Rupees (in words):</b>						

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Sl No.	No. of Persons required for Installation of equipment	No. of Man days required

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# HMT (INTERNATIONAL) LIMITED

A Govt. of India Undertaking

(OPEN TENDER)

BID DOCUMENTS

FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL

for

Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar

## CORRIGENDUM No.2

(dt: 17 - 12 - 2018)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

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### ATTENTION

- The following amendment has been made to the above mentioned tender with respect to Lot 19 (Misc. Measuring instruments) only.

The following item (Sl. No. 14) is included in Enclosure- 1 for LOT – 19:

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	Sl. No.	Qty			
14	5	60	1 Lot	Ring Gauge Set	Inch and Metric assorted	1 Lot

**All other terms and condition remains unchanged**

For HMT (International) Limited,

**Y K Vaish**  
JT. GENERAL MANAGER, PROJECTS

# HMT (INTERNATIONAL) LIMITED

A Govt. of India Undertaking

(OPEN TENDER)

BID DOCUMENTS

FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL  
for

Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar

## CORRIGENDUM No.3

(dt: 17 - 12 - 2018)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

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### ATTENTION

1. The following amendment has been made to the above mentioned tender with respect to Lot 24 only.

“Recommended spares for 5 years of normal Operation” is amended as “Recommended spares for 2 years of normal Operation” wherever applicable.

All other terms and condition remains unchanged

For HMT (International) Limited,

Y K Vaish

JT. GENERAL MANAGER, PROJECTS

**HMT (INTERNATIONAL) LIMITED**

*A Govt. of India Undertaking*

**(OPEN TENDER)**

**BID DOCUMENTS**

**FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL for**

**Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar**

**CORRIGENDUM No.4**

*(dt: 18 - 12 - 2018)*

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

*The Tender document issued against payment of Rs 2,500.00 (Rupees Two Thousand Five Hundred only) in the form of a Demand Draft / Digital Transfer towards cost of tender document. The Bidder who choose to download tender document from website must submit the Demand Draft towards cost of the Tender documents along with Technical bids in Envelope-I.*

**ATTENTION**

**1. The following amendment has been made to the above mentioned tender with respect to all lots.**

S.No	Existing clause in Tender	Revised / New clause in Tender
13.1 Section III: Special Conditions Of Contract (SCC)	<p><b><u>Payment Terms for supplies:</u></b></p> <ul style="list-style-type: none"> <li>80% payment for supplies shall be payable on 60<sup>th</sup> day from the date of delivery to our shipping agent at Chennai port through RTGS / NEFT. If the payment terms are not acceptable, the vendor can quote their own payment terms. However, the acceptance of the payment terms indicated is at the sole discretion of the Management.</li> <li>Balance 20% payment for supplies shall be paid through RTGS/NEFT after successful Installation and Commissioning / handing over of all the items on physical verification of equipment / material at project site by the Project Monitoring Committee (PMC) duly constituted by Ministry of External Affairs or 6 months from the date of delivery to our shipping agent at Chennai port whichever is earlier.</li> </ul>	<p><b><u>Payment Terms for supplies:</u></b></p> <ul style="list-style-type: none"> <li><b>80% payment for supplies shall be payable on 60th day from the date of delivery to our shipping agent at Chennai port through RTGS / NEFT only.</b></li> <li>Balance 20% payment for supplies shall be paid through RTGS/NEFT after successful Installation and Commissioning / handing over of all the items on physical verification of equipment / material at project site by the Project Monitoring Committee (PMC) duly constituted by Ministry of External Affairs or 6 months from the date of delivery to our shipping agent at Chennai port whichever is earlier.</li> </ul>

**All other terms and condition remains unchanged**

**2. Further to the above, the following amendment has been made to the above mentioned tender with respect to all Lots.**

**CLOSING ON: 21-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 21-12-2018, TIME 11.00 HRS**

For HMT (International) Limited,

Y K Vaish  
JT. GENERAL MANAGER, PROJECTS

**HMT (INTERNATIONAL) LIMITED**  
*A Govt. of India Undertaking*  
**(OPEN TENDER)**  
**BID DOCUMENTS**

**FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL for**  
**Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar**

**CORRIGENDUM No.5**

*(dt: 21 - 12 - 2018)*

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

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**ATTENTION**

- The following amendment has been made to the above mentioned tender with respect to bids for LOTS – 2, 4, 5, 6, 9, 10, 13, 15 to 21, 23, 24, 25 & 26 only:**

**CLOSING ON: 31-12-2018, TIME 11.00 HRS**

**TECHNICAL BID OPENING ON: 31-12-2018, TIME 11.30 HRS**

**All other terms and condition remains unchanged**

For HMT (International) Limited,

**Y K Vaish**  
**JT. GENERAL MANAGER, PROJECTS**



**HMT (INTERNATIONAL) LIMITED**  
*A Govt. of India Undertaking*  
**(OPEN TENDER)**  
**BID DOCUMENTS**

**FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL for**  
**Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar**

**CORRIGENDUM No.6**  
(dt: 31 - 12 - 2018)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

*The Tender document issued against payment of Rs 2,500.00 (Rupees Two Thousand Five Hundred only) in the form of a Demand Draft / Digital Transfer towards cost of tender document. The Bidder who choose to download tender document from website must submit the Demand Draft towards cost of the Tender documents along with Technical bids in Envelope-I.*

**ATTENTION**

1. **The following amendment has been made to the above mentioned tender with respect to bids for LOTS – 2, 4, 5, 6, 9, 10, 13, 15, 16, 18, 19,20 & 23 only:**

**CLOSING ON: 08-01-2019, TIME 11.00 HRS**

**TECHNICAL BID OPENING ON: 08-01-2019, TIME 11.30 HRS**

**All other terms and condition remains unchanged**

For HMT (International) Limited,

**Y K Vaish**  
**JT. GENERAL MANAGER, PROJECTS**

**HMT (INTERNATIONAL) LIMITED**  
*A Govt. of India Undertaking*  
**(OPEN TENDER)**  
**BID DOCUMENTS**

**FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL for**  
**Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar**

**CORRIGENDUM No.7**  
(dt: 10 - 1 - 2019)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

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**ATTENTION**

1. **The following amendment has been made to the above mentioned tender with respect to bids for LOTS – 4, 5, 9, 10, 13, 15, 16, 18, 19 & 20 only:**

**CLOSING ON: 21-01-2019, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 21-01-2019, TIME 11.00 HRS**

**All other terms and condition remains unchanged**

For HMT (International) Limited,

**Y K Vaish**  
**JT. GENERAL MANAGER, PROJECTS**

**HMT (INTERNATIONAL) LIMITED**  
*A Govt. of India Undertaking*  
**(OPEN TENDER)**  
**BID DOCUMENTS**

**FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL for**  
**Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar**

**CORRIGENDUM No.8**  
(dt: 21 - 1 - 2019)

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

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**ATTENTION**

1. **The following amendment has been made to the above mentioned tender with respect to bids for LOTS – 4, 5, 10, 13, 15, 16, 18, 19 & 20 only:**

**CLOSING ON: 01-02-2019, TIME 10.00 HRS**

**TECHNICAL BID OPENING ON: 01-02-2019, TIME 10.30 HRS**

**All other terms and condition remains unchanged**

For HMT (International) Limited,

**Y K Vaish**  
**JT. GENERAL MANAGER, PROJECTS**



**HMT (INTERNATIONAL) LIMITED**  
**A Govt. of India Undertaking**  
**(OPEN TENDER)**  
**BID DOCUMENTS**

**FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL FOR**  
**Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar**

**CORRIGENDUM No.9**

*(dt: 01 - 02 - 2019)*

Sl. #	LOT	ITEM
1	LOT - 1	Pillar, Pedestal Drill Machines, Pedestal Grinder, Hyd power hacksaw
2	LOT - 2	Vertical Band saw 450 mm
3	LOT - 3	Automatic Plastic Injection Moulding M/c
4	LOT - 4	Electro Discharge M/c CNC
5	LOT - 5	Wire Cut EDM CNC
6	LOT - 6	Testing M/cs
7	LOT - 7	Hydraulic press 100T
8	LOT - 8	Mechanical Press 10T & 100T
9	LOT - 9	Circle cutting m/c
10	LOT - 10	Nibbling Cropping, Punching m/c
11	LOT - 11	Roll Bending M/c
12	LOT - 12	Profile projector
13	LOT - 13	Tool Presetter with DRO & projector

Sl. #	LOT	ITEM
14	LOT - 14	Hydraulic Press Brake & Mechanical Guillotine shear
15	LOT - 15	Coil winding m/c CNC
16	LOT - 16	Shop Furniture
17	LOT - 17	Office Furniture
18	LOT - 18	Surface table, Angle plates
19	LOT - 19	Misc. Measuring instruments
20	LOT - 20	Work Benches
21	LOT - 21	Pallet Roll
22	LOT - 22	Mechatronics equipment
23	LOT - 23	Apparel manufacturing equipment
24	LOT - 24	Refrigeration & Airconditioning trainers
25	LOT - 25	Heat Treatment equipment
26	LOT - 26	Ref. & A/c equipment

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S001/2018 Dated 03-12-2018**

**CLOSING ON: 19-12-2018, TIME 10.30 HRS**

**TECHNICAL BID OPENING ON: 19-12-2018, TIME 11.00 HRS**

**PLACE: HMT(I) Board Room, HMT Bhavan, No.59, Bellary Road, Bangalore.**

*The Tender document issued against payment of Rs 2,500.00 (Rupees Two Thousand Five Hundred only) in the form of a Demand Draft / Digital Transfer towards cost of tender document. The Bidder who choose to download tender document from website must submit the Demand Draft towards cost of the Tender documents along with Technical bids in Envelope-I.*

**ATTENTION**

1. **The following amendment has been made to the above mentioned tender with respect to bids for LOTS – 4, 5, 13, 15, 16, 18, 19 & 20 only:**

**CLOSING ON: 12-02-2019, TIME 10.00 HRS**

**TECHNICAL BID OPENING ON: 12-02-2019, TIME 10.30 HRS**

**All other terms and condition remains unchanged**

For HMT (International) Limited,

Y K Vaish  
 JT. GENERAL MANAGER, PROJECTS