

# HMT (INTERNATIONAL) LIMITED

A Govt. of India Undertaking

(OPEN TENDER)

## BID DOCUMENTS

### FOR SUPPLY, INSTALLATION & COMMISSIONING, TRIAL OF

for

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

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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 : 1-3, 7, 14-18 & 23 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)

TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 Dated: 03-12-2018

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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	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

- HMT(I) invites sealed bids from eligible bidders for the Supplies as above with details listed in Section IV.  
**For the Lots : 1-3, 7, 14-18 & 23 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:

- 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. 20,00,000/- (Twenty Lakh Rupees only)**

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

**LOT -3: Rs. 40,00,000/- (Forty Lakh Rupees only)**

- LOT- 4: Rs. 20,00,000/- ( Twenty Lakh Rupees only)
- LOT- 5: Rs. 80,27,000 /- (Eighty Lakh Twenty Seven Thousand Rupees only)
- LOT- 6: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 7: Rs. 60,00,000/- (Sixty Lakh Rupees only)
- LOT- 8: Rs. 20,00,000/- (Twenty Lakh Rupees only)
- LOT- 9: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 10: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 11: Rs. 40,00,000 /- (Forty Lakh Rupees only)
- LOT- 12: Rs. 1,76,92,000/- (One Crore Seventy Six Lakh Ninety Two Thousand Rupees only)
- LOT- 13: Rs. 2,78,42,000/- (Two Crore Seventy Eight Lakh Forty Two Thousand Rupees only)
- LOT- 14: Rs. 10,00,000 /- (Ten Lakh Rupees only)
- LOT- 15: Rs. 1,18,86,000 /- One Crore Eighteen Lakh Eighty Six Thousand Rupees only)
- LOT- 16: Rs. 1,28,77,000 /- (One Crore Twenty Eight Lakh Seventy Seven Thousand Rupees only)
- LOT- 17: Rs. 1,37,46,000/- (One Crore Thirty Seven Lakh Forty Six Thousand Rupees only)
- LOT- 18: Rs. 1,38,31,000/- (One Crore Thirty Eight Lakh Thirty One Thousand Rupees only)
- LOT- 19: Rs. Rs. 40,00,000/- (Forty Lakh Rupees only)
- LOT- 20: Rs. 5,00,000/- (Five Lakh Rupees only)
- LOT- 21: Rs. 10,00,000/- (Ten Lakh Rupees only)
- LOT- 22: Rs. 5,00,000/- (Five Lakh Rupees only)
- LOT- 23: Rs. Rs. 60,00,000/- (Sixty Lakh 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 HMTI (International) Limited payable at Bangalore in separate envelopes for each lot in the Technical Bid.

- LOT -1: Rs. 12,000/- (Rupees Twelve Thousand Only)
- LOT -2: Rs. 13,000/- (Rupees Thirteen Thousand Only)
- LOT -3: Rs. 25,000/- (Rupees Twenty Five Thousand Only)
- LOT -4: Rs. 13,000/- (Rupees Thirteen Thousand Only)
- LOT -5: Rs. 54,000/- (Rupees Fifty Four Thousand Only)
- LOT - 6: Rs. 13,000/- (Rupees Thirteen Thousand Only)
- LOT -7: Rs. 47,000/- (Rupees Forty Seven Thousand Only)
- LOT -8: Rs. 11,000/- (Rupees Eleven Thousand Only)
- LOT -9: Rs. 7,000/- (Rupees Seven Thousand Only)
- LOT -10: Rs. 5,000/- (Rupees Five Thousand Only)
- LOT -11: Rs. 21,000/- (Rupees Twenty One Thousand Only)
- LOT -12: Rs. 1,18,000/- (Rupees One Lakh Eighteen Thousand Only)
- LOT -13: Rs. 1,86,000/- (Rupees One Lakh Eighty Six Thousand Only)
- LOT -14: Rs. 9,000/- (Rupees Nine Thousand Only)
- LOT -15: Rs. 80,000/- (Rupees Eighty Thousand Only)
- LOT -16: Rs. 86,000/- (Rupees Eighty Six Thousand Only)
- LOT -17: Rs. 92,000/- (Rupees Ninety Two Thousand Only)
- LOT -18: Rs. 93,000/- (Rupees Ninety Three Thousand Only)
- LOT -19: Rs. 28,000/- (Rupees Twenty Eight Thousand Only)
- LOT -20: Rs. 2,000/- (Rupees Two Thousand Only)
- LOT -21: Rs. 7,000/- (Rupees Seven Thousand Only)
- LOT -22: Rs. 4,000/- (Four Thousand Rupees only)

**LOT- 23: Rs. 34,000/- (Thirty Four Thousand Rupees only)**

- **Total Earnest Money Deposit to bid for all the Lots is Rs. 9,60,000/- (Rupees Nine Lakh Sixty 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.

- o 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

<b>SECTION II- INSTRUCTIONS TO BIDDERS (ITB)</b>	
<b>1</b>	<p><b>Definitions and Interpretation</b></p> <p>The “HMT(I)” / “BUYER” means: HMT(International) Limited, No.59, Bellary Road, Bangalore-560 032.</p> <p>The “Supplier” means any firm/institute/company to whom the contract is awarded.</p> <p>“SITE” means “Indo-Myanmar Industrial Training Centre” (IMITC), Monywa, Myanmar, where the supplies are required to be supplied.</p> <p>“PROJECT” means “Setting up of Indo-Myanmar Industrial Training Centre” (IMITC), Monywa, Myanmar.</p>
<b>2</b>	<p><b>Compliance of Requirements</b></p>
2.1	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.
<b>3</b>	<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>
<b>4</b>	<p><b>Criteria for pre qualification of Bidder</b></p> <p><b>The Bidder shall satisfy the following prequalification criteria:</b></p> <p>The Bidder shall provide satisfactory documentary evidence acceptable to HMT(I) to show that:</p>
4.1	<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 style="padding-left: 40px;"> <b>LOT -1: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT -2: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT -3: Rs. 40,00,000/- (Forty Lakh Rupees only)</b>  <b>LOT- 4: Rs. 20,00,000/- ( Twenty Lakh Rupees only)</b>  <b>LOT- 5: Rs. 80,27,000 /- (Eighty Lakh Twenty Seven Thousand Rupees only)</b>  <b>LOT- 6: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 7: Rs. 60,00,000/- (Sixty Lakh Rupees only)</b>  <b>LOT- 8: Rs. 20,00,000/- (Twenty Lakh Rupees only)</b>  <b>LOT- 9: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 10: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 11: Rs. 40,00,000 /- (Forty Lakh Rupees only)</b>  <b>LOT- 12: Rs. 1,76,92,000/- (One Crore Seventy Six Lakh Ninety Two Thousand Rupees only)</b>  <b>LOT- 13: Rs. 2,78,42,000/- (Two Crore Seventy Eight Lakh Forty Two Thousand Rupees only)</b>  <b>LOT- 14: Rs. 10,00,000 /- (Ten Lakh Rupees only)</b>  <b>LOT- 15: Rs. 1,18,86,000 /- One Crore Eighteen Lakh Eighty Six Thousand Rupees only)</b>  <b>LOT- 16: Rs. 1,28,77,000 /- (One Crore Twenty Eight Lakh Seventy Seven Thousand Rupees only)</b>  <b>LOT- 17: Rs. 1,37,46,000/- (One Crore Thirty Seven Lakh Forty Six Thousand Rupees only)</b>  <b>LOT- 18: Rs. 1,38,31,000/- (One Crore Thirty Eight Lakh Thirty One Thousand Rupees only)</b>  <b>LOT- 19: Rs. Rs. 40,00,000/- (Forty Lakh Rupees only)</b>  <b>LOT- 20: Rs. 5,00,000/- (Five Lakh Rupees only)</b>  <b>LOT- 21: Rs. 10,00,000/- (Ten Lakh Rupees only)</b>  <b>LOT- 22: Rs. 5,00,000/- (Five Lakh Rupees only)</b>  <b>LOT- 23: Rs. Rs. 60,00,000/- (Sixty Lakh Rupees only)</b> </p>
4.2	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.
4.3	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.
	<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>
<b>5</b>	<p><b>Cost of bid documents</b></p>
5.1	<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> <li>○ If the documents are purchased from HMT (International) Limited, copy of the receipt for payment of cost of bid</li> </ul>

<b>SECTION II- INSTRUCTIONS TO BIDDERS (ITB)</b>	
	<p>documents shall be kept along with the Technical bid documents in Envelope –I.</p> <ul style="list-style-type: none"> <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. 12,000/- (Rupees Twelve Thousand Only)</b>  <b>LOT -2: Rs. 13,000/- (Rupees Thirteen Thousand Only)</b>  <b>LOT -3: Rs. 25,000/- (Rupees Twenty Five Thousand Only)</b>  <b>LOT -4: Rs. 13,000/- (Rupees Thirteen Thousand Only)</b>  <b>LOT -5: Rs. 54,000/- (Rupees Fifty Four Thousand Only)</b>  <b>LOT- 6: Rs. 13,000/- (Rupees Thirteen Thousand Only)</b>  <b>LOT -7: Rs. 47,000/- (Rupees Forty Seven Thousand Only)</b>  <b>LOT -8: Rs. 11,000/- (Rupees Eleven Thousand Only)</b>  <b>LOT -9: Rs. 7,000/- (Rupees Seven Thousand Only)</b>  <b>LOT -10: Rs. 5,000/- (Rupees Five Thousand Only)</b>  <b>LOT -11: Rs. 21,000/- (Rupees Twenty One Thousand Only)</b>  <b>LOT -12: Rs. 1,18,000/- (Rupees One Lakh Eighteen Thousand Only)</b>  <b>LOT -13: Rs. 1,86,000/- (Rupees One Lakh Eighty Six Thousand Only)</b>  <b>LOT -14: Rs. 9,000/- (Rupees Nine Thousand Only)</b>  <b>LOT -15: Rs. 80,000/- (Rupees Eighty Thousand Only)</b>  <b>LOT -16: Rs. 86,000/- (Rupees Eighty Six Thousand Only)</b>  <b>LOT -17: Rs. 92,000/- (Rupees Ninety Two Thousand Only)</b>  <b>LOT -18: Rs. 93,000/- (Rupees Ninety Three Thousand Only)</b>  <b>LOT -19: Rs. 28,000/- (Rupees Twenty Eight Thousand Only)</b>  <b>LOT -20: Rs. 2,000/- (Rupees Two Thousand Only)</b>  <b>LOT -21: Rs. 7,000/- (Rupees Seven Thousand Only)</b>  <b>LOT- 22: Rs. 4,000/- (Four Thousand Rupees only)</b>  <b>LOT- 23: Rs. 34,000/- (Thirty Four Thousand Rupees only)</b></p> <p><b>- Total Earnest Money Deposit to bid for all the Lots is Rs. 9,60,000/- (Rupees Nine Lakh Sixty 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 writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid. The technical



<b>SECTION II- INSTRUCTIONS TO BIDDERS (ITB)</b>	
	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: www.hmti.com
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>SECTION II- INSTRUCTIONS TO BIDDERS (ITB)</b>	
<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 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: Metric System</u>
2	<u>Colour</u> : As specified in the Technical Specifications.
3	<u>Electricals: Main supply: 400 V, 3 Ph, 50Hz AC / 230 V, 1 Ph, 50Hz AC Supply</u>
4	<u>Delivery period for supplies: F.O.R Chennai Port within 8 weeks from the date of purchase order.</u> 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><u>Payment Terms for supplies:</u></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><u>Payment for services portion for LOTS – 3, 12, 13,14,15,16,17&amp;18</u> 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><u>Penalty for delayed Supply and Services:</u> 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 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.</p>
15	<p><u>Clearance for Despatch:</u> 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	<p><u>Name &amp; Address of the Shipping Agent :</u> Will be informed at the time of dispatch clearance by HMT(I).</p>
17	<p><u>Technical Documents:</u> 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><u>Bought Outs:</u> 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; TELEMCHANIC etc.,</p>
19	<p><u>Rejection &amp; Risk:</u> 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><u>Performance Bank Guarantee (PBG):</u> 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><u>International Warranty:</u> 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	<p><u>Installation for LOTS – 3, 12, 13,14,15,16,17&amp;18</u> 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, 12, 13,14,15, 16,17&amp;18 at project site in Myanmar.</p>

	<ul style="list-style-type: none"> <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> <li>○ 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.</li> </ul>
23	<p><b>Arbitration:</b> 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><b>Jurisdiction:</b> The disputes, legal matters, court matters, if any shall be subject to Bangalore jurisdiction only.</p>
25	<p><b>Force Majeure:</b> 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 that 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 3D Engraving machine

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 13 of Annex 6	3D Engraving machine		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### LOT – 2 Hydraulic Pipe Bending machine

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 9	Hydraulic pipe bending machine	Portable 100 mm capacity	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### LOT – 3 Jib Crane

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 74 of Annex 6	Jib Crane	3T	1
2	Sl. No. 50 of Annex 7	Jib Crane	3T	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### LOT – 4 Miscellaneous Items

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 69 of Annex 6	Hand Injection Moulding Machine	Maual operated	2
2	Sl. No. 97 of Annex 6	Oil Drums, measures & dispensers	Assorted	1
3	Sl. No. 98 of Annex 6	Oil Filtering Unit	Porta filter	1
4	Sl. No. 49 of Annex 7	Chain Pulley Block	3 T	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### LOT – 5 HSS Tools

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 76 of Annex 5	Set of HSS centre drills	Assorted sizes	1 lot
2	Sl. No 104 of Annex 6	Set of HSS cutters	Assorted sizes	1 lot
3	Sl. No 82 of Annex 5	Set of Milling cutters	Assorted sizes	1 lot
4	Sl. No 80 of Annex 5	Set of reamers	Assorted sizes	1 lot
5	Sl. No 63 of Annex 8	Straight shank drill set	Assorted sizes	8 set
6	Sl. No 84 of Annex 7	Twist Drill - Metric	Assorted sizes	20

7	Sl. No 74 of Encl 5	Set of twist drills – Parallel shank	Assorted sizes	1 lot
8	Sl. No 75 of Annex 5	Set of twist drills – Taper shank	Assorted sizes	1 lot
9	Sl. No 92 of Annex 4	Tap & Die set	3 – 16 mm sizes	1 lot
10	Sl. No 77 of Annex 5	Set of taps & dies	Assorted sizes	1 lot
11	Sl. No. 26 of Annex 5	Die stock	M3-M16	1 lot
12	Sl. No. 78 of Annex 6	Die Stock	M3-M16	1 lot

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 6 Carbide Tools**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 103 of Annex 6	Set of carbide tools	Assorted sizes	1 lot
2	Sl. No 78 of Annex 5	Set of turning tools	Assorted sizes	1 lot
3	Sl. No 79 of Annex 5	Set of threading tools	Assorted sizes	1 lot
4	Sl. No 81 of Annex 5	Set of boring bars	Assorted sizes	1 lot

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 7 Screw Compressor**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 13 of Annex-1	Air compressor	Screw type – 10HP	1
2	Sl. No. 72 of Annex-6	Air compressor	Screw type – 10HP	2
3	Sl. No. 26 of Annex-9	Air compressor	Screw type – 10HP	1
4	Sl. No. 47 of Annex-7	Air compressor	Screw type – 5HP	1

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 8 Electrical Panels**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 32 of Annex 8	E.L.C.B	5 KVA model	1
2	Sl. No. 33 of Annex 8	R.C.C.B	5 KVA model	1
3	Sl. No. 34 of Annex 8	M.C.C.B	5 KVA model	1
4	Sl. No. 127 of Annex 8	Cut Section models of Motors	Assorted types	1
5	Sl. No. 138 of Annex 8	Single phase preventer	For 2.2 kW	1
6	Sl. No. 139 of Annex 8	Earth Leakage Switch	Safe trip	1
7	Sl. No. 94 of Annex 8	Contactora	3 phase, 400 volt, 16 amps 2 NO & 2NC auxiliary contacts	1
8	Sl. No. 95 of Annex 8	Contactora	3 phase, 400 volt, 32 amps 2 NO & 2NC auxiliary contacts	1
9	Sl. No. 98 of Annex 8	Knife switch	DPDT fitted with fuse terminals 16 amp	2
10	Sl. No. 99 of Annex 8	Knife switch	TPDT fitted with fuse terminals 16 amp	2

11	Sl. No. 96 of Annex 8	Limit Switch - Set	Quick action with 2 NC + 1 NO, 2 NO + 1 NC, Delayed Acton with 2 NC + 1NO, 2 NO + 1 NC	1
12	Sl. No. 97 of Annex 8	Rotary switch set	16A 500v 3 pole & 16A 500v 4 pole, Qty One each	2
13	Sl. No. 93 of Annex 8 Sl. No. 114 of Annex 8	Relays - set	Over current, Under voltage, Over voltage, Leak current  Cut out, reverse current, over load, under voltage	1  1
14	Sl. No. 115 of Annex 8	Starters for 3 Phase, 400V, 50 cycles, A.C. motors - Set	Direct on line tester, Star delta starter, Auto Transformer type, Rotor resistance starter, soft starter, Forward reverse starter driver. Qty One each	1
15	Sl. No. 35 of Annex 8	M.C.B	16 Amps 2pole 250v, 16Amps 3pole 500v, Qty One each	2

**FOR DETAILS REFER ENCLOSURE - 1**

**LOT – 9 Electrical Metres**

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 73 of Annex 8	Analog multi Meter	0 to 1000 M Ohms, 2.5 to 500 volt	4
2	Sl. No. 75 of Annex 8	A.C. Voltmeter, MI	0-250-500 V AC	2
3	Sl. No. 76 of Annex 8	Milli Voltmeter centre zero	100-0-100 m volt	2
4	Sl. No. 77 of Annex 8	D.C Milli ammeter	0-500mA	2
5	Sl. No. 78 of Annex 8	D.C. Ammeter MC	0-1 A	2
6	Sl. No. 79 of Annex 8	Ammeter MC	0-5 A	2
7	Sl. No. 80 of Annex 8	Ammeter MC	0-15-25 A	2
8	Sl. No. 81 of Annex 8	A.C. Ammeter MI	0-5A	2
9	Sl. No. 82 of Annex 8	A.C. Ammeter MI	0-15-25 A	2
10	Sl. No. 83 of Annex 8	K.W. Meter	0-1-3 Kw, 2.5/5A portable	2
11	Sl. No. 84 of Annex 8	A.C. Energy Meter	Single phase, 5A, 230V, Induction Type	2
12	Sl. No. 85 of Annex 8	Single Phase power factor meter	Digital	2
13	Sl. No. 86 of Annex 8	Frequency Meter	Digital	2
14	Sl. No. 90 of Annex 8	Tong tester/ Clamp meter	0-5-10A to measure 0-250-500v,	2
15	Sl. No. 112 of Annex 8	Flux meter	EMF Tester	2
16	Sl. No. 113 of Annex 8	Lux meter	Portable digital type, 0 - 50000 lux range	2
17	Sl. No. 142 of Annex 8	Clamp on Ammeter	600A	3
18	Sl. No. 146 of Annex 8	Earth Resistance Tester	2000 Ohm	2
19	Sl. No. 164 of Annex 8	Motor Winding Set		1
20	Sl. No. 111 of Annex 4	Wattmeter multi range up to 1KW		1
21	Sl. No. 112 of Annex 4	Wattmeter multi range up to 5KW		1



22	Sl. No. 106 of Annex 4	Voltmeter AC/DC	Portable precision grade teak wood case leather belt 0-5 volt	5
23	Sl. No. 107 of Annex 4	Ammeter AC/DC	Portable precision grade teak wood case leather belt 0-5 amp	5
24	Sl. No. 108 of Annex 4	Ammeter AC/DC	Portable precision grade teak wood case leather belt 0-30 amp	5
25	Sl. No. 153 of Annex 8	High Voltage Probe with meter	Maximum Measuring Voltage: 35kV or 40kV, Digital Type	4
26	Sl. No. 156 of Annex 8	Digital Counter with all accessories	Measuring Frequency Range: 0-1000 MHz Measuring Time Range 10s to 1 ns.	2
27	Sl. No. 87 of Annex 8	Tachometer with stop watch	Digital	3
28	Sl. No. 74 of Annex 8 Sl. No. 114 of Annex 4 Sl. No. 126 of Annex 7	Digital Multimeter		8 2 4
29	Sl. No. 113 of Annex 4	Analog multi Meter		5
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT – 10 Electrical Appliances**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 23 of Annex 8	Ceiling Fan	AC 230 V, 1200 mm	2
2	Sl. No. 104 of Annex 8	Electric Hot plate	1500 watt. 230 V	3
3	Sl. No. 105 of Annex 8	Electrical Kettle	1000 watts, 230V	3
4	Sl. No. 106 of Annex 8	Electric Iron box	1200 watts, 230 V with temperature control	3
5	Sl. No. 107 of Annex 8	Immersion heater	1000W,230V	3
6	Sl. No. 108 of Annex 8	Geyser	25 litre – 240 V (Storage type)	2
7	Sl. No. 109 of Annex 8	Induction stove		2
8	Sl. No. 110 of Annex 8	Microwave Oven		2
9	Sl. No. 111 of Annex 8	Electric Cooker		2
10	Sl. No. 134 of Annex 8	Sodium vapor Lamp fitting	240v, 80W	2
11	Sl. No. 135 of Annex 8 Sl. No. 145 of Annex 8	Florescent lamp fitting (2 nos.) Tube Light Set (5 nos.)	40 W /230 V/50 Hz, 4Ft.	2 5
12	Sl. No. 136 of Annex 8	Mercury vapor lamp fitting	240v, 80W	2
13	Sl. No. 143 of Annex 8	Domestic water pump with starter	1 HP	3
14	Sl. No. 144 of Annex 8	Electric Toaster	250 W Heating Element & Heating adjustment, 230 V	2
15	Sl. No. 147 of Annex 8	Semi Automatic Washing machine	Capacity 3.5 Kg	2
16	Sl. No. 148 of Annex 8	Automatic Washing machine	Capacity 3.5 Kg	2
17	Sl. No. 149 of Annex 8	Wall Fan	18" sweep dia	3
18	Sl. No. 158 of Annex 8	Mini drill machine for P.C.B's with accessories and power supply	12V operating voltage DC	1
19	Sl. No. 159 of Annex 8	High speed Drill Set	1mm to 6 mm (11 pieces in each)	2
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

## LOT – 11 Electronic Trainers

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 101 of Annex 8	Inverter, sine wave	1 KVA Input 12 Volt DC, Output 220 volt AC with 12 battery	2
2	Sl. No. 28 of Annex 8	Discrete Component trainer		1
3	Sl. No. 29 of Annex 8	Linear Digital I.C Trainer		1
4	Sl. No. 140 of Annex 8	Booths for domestic wiring		2
5	Sl. No. 103 of Annex 8	Rheostat set	Tubular type of ranges 0-1 Ohm 5 Amp, 0-10 Ohm 5 Amp, 0 – 25 Ohm 1 Amp, 0 – 300 Ohm 1 Amp, 0 - 1000 Ohm 0.5Amp, Qty One each	3
6	Sl. No. 154 of Annex 8	DTMF telephone trainer		2
7	Sl. No. 27 of Annex 8	Function Generator Trainer Kit		1
8	Sl. No. 150 of Annex 8	Radio Receiver AM & FM with FM Stereo	Output power 5W +5W rms, Operating Voltage 230V AC & DC 9V (all Transistorized or Section wise IC's)	4
9	Sl. No. 89 of Annex 8	Potential transformer	1000/500V, 500/200 V	2
10	Sl. No. 30 of Annex 8	Digital I.C Trainer		1
11	Sl. No. 88 of Annex 8	Current Transformer	20/5 Amp, 10/1 Amp, Qty one each	2
12	Sl. No. 151 of Annex 8	Stabilized low voltage power supply	-50V to +50V Regulated Adjustable DC Output with Voltmeter & Ammeter, 3V, 6V, 12V Separate AC Outputs	1
13	Sl. No. 157 of Annex 8	Alignment tool kit	For Radio Aligning	1
14	Sl. No. 110 of Annex 4	Variac	In output 230V output 400 V. Portable complete with meterstand controls	1
15	Sl. No. 91 of Annex 8	Megger set	500 Volts & 1000 Volts, Generator type, Qty One each	2
16	Sl. No. 92 of Annex 8	Wheat stone bridge	Complete with galvanometer and battery	2
17	Sl. No. 100 of Annex 8	DC power supply	0 – 100 volt, 5 amp	3
18	Sl. No. 102 of Annex 8	Servo Voltage Stabilizer	Input 150-230 volt AC, Output 220 Volt AC 1KVA	2
19	Sl. No. 132 of Annex 8	Auto transformer	3.5kW. 415V, 3phase	1
20	Sl. No. 31 of Annex 8	Battery charger	With variable output 1 KW	2
21	Sl. No. 109 of Annex 4	MEGGER	1000 v	1
22	Sl. No. 167 of Annex 8	Electronic Flasher		1
23	Sl. No. 117 of Annex 4	RLC Bridge		1
24	Sl. No. 137 of Annex 8	Neon Sign lamp board	Demonstration , 240V	1
25	Sl. No. 152 of Annex 8	Pattern generator with all accessories	PAL B/G & NTSC, Horizontal lines, Cross Hatch with Circle, dot pattern in B/W, Colour Bars, Red Raster & White Raster in Colour	1
26	Sl. No. 155 of Annex 8	Micro Processor Training kit	CPU operating @2.5/5 Hz	8

**FOR DETAILS REFER ENCLOSURE - 1**

## LOT – 12 Automobile Items

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	1/7	Cut section model of demonstration chassis working with electricals – Two wheeler Petrol vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1
2	2/7	Cut section model of demonstration chassis working with electricals – MPFI system vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1
3	3/7	Cut section model of 4 cylinder 4 stroke petrol engine working with electricals- Carburetor vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1
4	4/7	Cut section model of 4 cylinder 4 stroke diesel engine working with electricals- LCV	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1
5	5/7	Cut section model of steering gear box with wheel and axle:	Rack and pinion type, worm and roller type and re-circulating ball type	1
6	6/7	Cut section model of Airbrake system		1
7	7/7	Demonstration board of electronic ignition system		1
8	8/7	Cut section model of power window with one door		1
9	9/7	Cut section model of automatic transmission of car		1
10	10/7	Cut section models of different automobile parts set		1
11	11/7	Cut section model of two wheeler engine and other parts	Petrol engine	1
12	12/7	Model mock layout of car electrical system		1
13	13/7	Two wheeler petrol engine	Brand new in working condition with all fittings on castor wheels	1
14	14/7	Four wheeler petrol MPFI engine	Brand new in working condition with all fittings on castor wheels	1
15	15/7	CRDI Diesel engine	Brand new in working condition with all fittings on castor wheels	1
16	16/7	Tyre changer	Max tyre dia 950 mm	1
17	17/7	Automatic tyre inflator	0-170 psi	1
18	18/7	Low raise lift	Height 120 – 1000 mm	1
19	19/7	Two post lift	3200 kgs	1
20	20/7	Four post lift	With flat runways – 3500 kgs	1
21	21/7	Petrol compression tester		1

22	22/7	Mechanical wheel alignment		1
23	23/7	Diesel injector cleaning machine		1
24	24/7	Hydraulic bearing puller		1
25	25/7	Air compressor pressure gauge		1
26	26/7	Carburetor repair tool kit		1
27	27/7	Distributor tester		1
28	28/7	Cylinder gauge, bore dial gauge with std. accessories	50-150 mm	1 set
29	29/7	Tachometer	Counting type	1
30	30/7	Connecting rod alignment fixture		1
31	31/7	Puller set universal bearing and bushes		1 set
32	32/7	Piston ring compressor		1
33	33/7	Valve key inserter		1
34	34/7	Electrical Test Bench		1
35	36/7	Injector cleaner & Tester		1
36	37/7	Battery charger		1
37	38/7	Battery tester	Without printer	1
38	39/7	Garage Jack, Hydraulic	Cap. 2.5 ton	1
39	40/7	Hydraulic Bottle Jack	2T	1
40	41/7	Hyd Garage press- Manually operated	Cap. 50 ton	1
41	42/7	Torque wrench	Ratchet type	1
42	43/7	Cylinder Liner extractor		1 set
43	48/7	Steel Creeper	1030x415x160mm	10
44	98/7	Double open ended ignition spanner set of 5	0 to 9 mm	5
45	100/7	Spanner Ring off-set	SAE	4 lots
46	101/7	Spanner of spark plug	14 mm	10
47	102/7	Magneto spanner set of 8 spanners		10
48	109/7	Tray cleaning	45 x 30 cm	20
49	111/7	Lifter, Valve Spring		5
50	112/7	Extractor, Stud 'Ezy out' type		5
51	116/7	Distributor for petrol	Brand new	1
52	117/7	Carburetor (two different types)	Brand new	1
53	118/7	Water Pump and Oil Pump – 2 each	Brand new	1 set
54	119/7	Tachometer Digital		10
55	120/7	Jack Hydraulic (Trolley type)		3
56	121/7	Tester spark plug	NEON type	5
57	122/7	Lifting jack, screw type		3
58	123/7	Coil spring compressor for suspension spring		1

59	124/7	Hot patch clamp unit		2
60	125/7	High rate discharge tester		1
61	127/7	Pneumatic tools		1 set
62	128/7	Automobile spray gun		4
63	129/7	Impact Screw Driver		2 set
64	134/7	Timing light	xenon	5
65	135/7	Battery load tester		1
66	136/7	Continuity meter		1
67	137/7	Fuel injection pump (Diesel) inline	Brand new	1
68	138/7	Fuel injection pump (Diesel) rotary	Brand new	1
69	139/7	Set of governors for diesel pump	Brand new	1
70	140/7	Petrol nozzle		1 set

**FOR DETAILS REFER ENCLOSURE - 1**

### **LOT – 13 Automobile -Advanced**

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 1 Advanced of Annex 7	Fully operational Multi Point Injection Petrol Engine	Complete with Fuel, Ignition, Cooling, Exhaust Systems, Starting and Charging System.	1
2	Sl. No. 2 Advanced of Annex 7	Fully Operational Single Point Injection Petrol Engine	Complete with Fuel, Ignition, Cooling and Exhaust Systems.	1
3	Sl. No. 3 Advanced of Annex 7	Fully operational Diesel Engine	Cooling, Turbo and Exhaust Systems, Starting and Charging System – (Volkswagen 1.9 Turbo Diesel Engine Complete with BOSCH Electronic Diesel Control System, fitted with manufactures Diagnostic socket 16Pin)	1
4	Sl. No. 4 Advanced of Annex 7	Fully operational Diesel Engine,	complete with Fuel, Cooling, Turbo and Exhaust System, Starting and Charging system – (Common Rail Turbo Diesel Engine, Complete Bosch or Siemens Electronic Diesel Control System fitted with manufactures Diagnostic socket 16Pin)	1
5	Sl. No. 5 Advanced of Annex 7	Sets of all sensors and actuators	Used for modern Engines.	2
6	Sl. No. 6 Advanced of Annex 7	Simulation of Central Door Locking	With Alarm system and power windows including real working on car door.	1
7	Sl. No. 7 Advanced of Annex 7	Complete Set of Alarm System		1
8	Sl. No. 8 Advanced of Annex 7	Complete set of ABS Components		1
9	Sl. No. 9 Advanced of Annex 7	Complete set of Airbag Components		1
10	Sl. No. 10 Advanced of Annex 7	Air Compressor	Reciprocating	1

11	Sl. No. 11 Advanced of Annex 7	Hand held Diagnostic Tester		1
12	Sl. No. 12 Advanced of Annex 7	Wireless Diagnostic tester include Laptop		1
13	Sl. No. 13 Advanced of Annex 7	Fully operational ESP Trainer.	Complete with braking circuit and manufactured using original vehicle components. Simulation of wheel lock to active the ABS. pressure gauges indicate individual front and rear line pressures at each wheel. Brake pedal kick back can be observed. Diagnostic socket fitted for the connection of fault code readers	1
14	Sl. No. 14 Advanced of Annex 7	Fully operated automotive automatic Air Condition System Simulator		1
15	Sl. No. 15 Advanced of Annex 7	Automotive special Multi Meter		1
16	Sl. No. 16 Advanced of Annex 7	3D wheel Alignment		1
17	Sl. No. 17 Advanced of Annex 7	4 Gas Analyzer		1
18	Sl. No. 18 Advanced of Annex 7	Common Rail Injector Tester		1
19	Sl. No. 19 Advanced of Annex 7	Lift for wheel Alignment		1
20	Sl. No. 20 Advanced of Annex 7	Fully operated steering system with all component		1
21	Sl. No. 21 Advanced of Annex 7	Fully Automatic 'AIRCO' service center with integrated		1
22	Sl. No. 22 Advanced of Annex 7	Sensors Simulator		1
23	Sl. No. 23 Advanced of Annex 7	Eprom reader		1
24	Sl. No. 24 Advanced of Annex 7	Immobilizer Key Programmer		1
25	Sl. No. 35 of Annex 7	Sparkplug Cleaner & Tester		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 14 Ultrasonic Crack Detector**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 29 of Annex 9	Ultrasonic crack detector		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

#### **LOT – 15 Computer – Workstation & software**

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-1	Computers	Latest version	20
2	Sl. No. 18 of Annex-6	Computers for CNC & Tool design	Latest	20
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### LOT- 16 Computers, Laptops & software preloaded

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-10	Desktops	Latest	20
2	Sl. No. 3 of Annex 10	Laptops		10
3	Trg Matl Annex 11	Laptop computer		30
4	Sl. No 16.02 of Annex 10	MS office – Home & Student with media		40
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### LOT- 17 Computer peripherals & Software

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- 1	Server		1
2	Sl. No. 19 of Annex-6	Server		1
3	Sl. No. 1 of Annex-10	Server		1
4	Sl. No. 5 of Annex- 1	UPS for server		1
5	Sl. No. 19 of Annex-6	UPS for server		1
6	Sl. No. 10 of Annex-10	Smart UPS with 16 Batteries		1
7	Sl. No. 11 of Annex 10	Portable Hard Disks		10
8	Sl. No. 37 of Annex-3	Interactive White Board		1
9	Sl. No. 175 of Annex-8	Interactive White Board		1
10	Sl. No. 9 of Annex-10	Interactive White Board		2
11	Sl. No. 6 of Annex-1	Networking Hardware set		1 set
12	Sl. No. 22 of Annex-2	LCD Projector with Screen & Wall mount		1
13	Sl. No. 8 of Annex-10	LCD Projector with Screen & Wall mount		1
14	Trg Matl of Annex 11	LCD Projector with Screen & Wall mount		10
15	Sl. No. 5 of Annex-10.	Wireless Access Point		2 nos
16	Sl. No. 4 of Annex-10	Wireless Router		1
17	Sl. No. 6 of Annex-10	Wireless LAN Card		22
18	Trg Matl of Annex-11	Photo Copier		10
19	Sl. No. 11 of Annex-1	Plotter		1
20	Sl. No. 24 of Annex 6	Plotter		1
21	Sl. No. 7 of Annex-10	Colour Laser Networking Printer		1
22	Sl. No. 10 of Annex-1	Laser Networking Printer		1
23	Sl No 23 of Annex-6	Laser Networking Printer		1
24	Sl. No. 16 of Annex-	<b>Software (Academic Version)</b>		1 lot

10	Windows Server Standard 2016 R2		1
	MS SQL Server Standard 2016		1
	Visual Studio 2017 professional SNGL		1
	Corel DRAW Graphics Suite X8-Single user license		1
	CorelDraw Graphics Suite X8 Maintenance (2 yrs)		1
	Adobe Captivate for Teams- Annual Subscription		1
	Adobe CS5.5 master collection		1
	Autodesk 3ds Max 2015 Education Annual Subscription		1
	Kasperesky internet security 10 users Box pack with 1 year subscription		4
<b>FOR DETAILS REFER ENCLOSURE - 1</b>			

### **LOT – 18 Welding Equipment**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 17 of Annex 9	Welding Transformer	40-300A	4
2	Sl. No. 18 of Annex 9	Welding Transformer	40-400A	4
3	Sl. No. 19 of Annex 9	Welding Rectifier	600A	2
4	Sl. No. 20 of Annex 9	Spot welding machine		1
5	Sl. No. 21 of Annex 9	MIG welding equipment	60-400A	3
6	Sl. No. 22 of Annex 9	TIG welding equipment	40-400A	3
7	Sl. No. 23 of Annex 9	Submerged arc welding	1000A	2
8	Sl. No. 24 of Annex 9	Oxy-acetylene gas welding equipment		4
9	Sl. No. 25 of Annex 9	Portable flame cutting machine		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT – 19 Welding Booth & Table**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 78 of Annex 9	Welding Booth	Portable type	24
2	Sl. No. 145 of Annex 4	Welding Table		1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				



### **LOT 20 Work Holding Devices**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 83 of Annex 5	Work holding devices	Assorted sizes	1 lot
2	Sl No. 107 of Annex 6	Work holding devices	Assorted sizes	1 lot
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT 21 SET OF Tool Holders for CNC Machines**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 106 of Annex 6	SET OF Tool Holders for CNC Machines	Assorted	1 lot
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT – 22 Set of work holding clamps and fixtures- Welding**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No 87 of Annex 9	Set of work holding clamps and fixtures		1 lot
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

### **LOT – 23 SOFTWARE FOR DESIGN**

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	Sl. No. 9 of Annex-1	Software for designing & drafting	Autocad	15
2	Sl. No. 22 of Annex-6	Software	Autocad	1
<b>FOR DETAILS REFER ENCLOSURE - 1</b>				

**End of Section IV**

**SECTION V – COMMERCIAL**

Annexure – 1

**PRICE SCHEDULE**

**LOT – 1 3D Engraving 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 13 of Annex 6	3D Engraving 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.

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 Hydraulic pipe 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 5 of Annex 9	Hydraulic pipe bending machine	Portable 100 mm capacity	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 - 3 Jib 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. 74 of Annex 6	Jib Crane	3T	1		
2	Sl. No. 50 of Annex 7	Jib Crane	3T	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**

- 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 Miscellaneous items**

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. 69 of Annex 6	Hand Injection Moulding Machine	Maual operated	2		
2	Sl. No. 97 of Annex 6	Oil Drums, measures & dispensers	Assorted	1		
3	Sl. No. 98 of Annex 6	Oil Filtering Unit	Porta filter	1		
4	Sl. No. 49 of Annex 7	Chain Pulley Block	3 T	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 - 5 HSS Tools**

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 76 of Annex 5	Set of HSS centre drills	Assorted sizes	1 lot		
2	Sl. No 104 of Annex 6	Set of HSS cutters	Assorted sizes	1 lot		
3	Sl. No 82 of Annex 5	Set of Milling cutters	Assorted sizes	1 lot		
4	Sl. No 80 of Annex 5	Set of reamers	Assorted sizes	1 lot		
5	Sl. No 63 of Annex 8	Straight shank drill set	Assorted sizes	8 set		
6	Sl. No 84 of Annex 7	Twist Drill - Metric	Assorted sizes	20		
7	Sl. No 74 of Encl 5	Set of twist drills – Parallel shank	Assorted sizes	1 lot		
8	Sl. No 75 of Annex 5	Set of twist drills – Taper shank	Assorted sizes	1 lot		
9	Sl. No 92 of Annex 4	Tap & Die set	3 – 16 mm sizes	1 lot		
10	Sl. No 77 of Annex 5	Set of taps & dies	Assorted sizes	1 lot		
11	Sl. No. 26 of Annex 5	Die stock	M3-M16	1 lot		
12	Sl. No. 78 of Annex 6	Die Stock	M3-M16	1 lot		
<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 – 6 Carbide Tools**

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 103 of Annex 6	Set of carbide tools	Assosted sizes	1 lot		
2	Sl. No 78 of Annex 5	Set of turning tools	Assosted sizes	1 lot		
3	Sl. No 79 of Annex 5	Set of threading tools	Assosted sizes	1 lot		
4	Sl. No 81 of Annex 5	Set of boring bars	Assosted sizes	1 lot		
<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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**LOT - 7 Rotay Screw Compressor**

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. 13 of Annex-1	Air compressor	Screw type – 10HP	1		
2	Sl. No. 72 of Annex-6	Air compressor	Screw type – 10HP	2		
3	Sl. No. 26 of Annex-9	Air compressor	Screw type – 10HP	1		
4	Sl. No. 47 of Annex-7	Air compressor	Screw type – 5HP	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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**LOT - 8 Electrical Panels**

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. 32 of Annex 8	E.L.C.B	5 KVA model	1		
2	Sl. No. 33 of Annex 8	R.C.C.B	5 KVA model	1		
3	Sl. No. 34 of Annex 8	M.C.C.B	5 KVA model	1		
4	Sl. No. 127 of Annex 8	Cut Section models of Motors	Assorted types	1		
5	Sl. No. 138 of Annex 8	Single phase preventer	For 2.2 kW	1		
6	Sl. No. 139 of Annex 8	Earth Leakage Switch	Safe trip	1		
7	Sl. No. 94 of Annex 8	Contactora	3 phase, 400 volt, 16 amps 2 NO & 2NC auxiliary contacts	1		
8	Sl. No. 95 of Annex 8	Contactora	3 phase, 400 volt, 32 amps 2 NO & 2NC auxiliary contacts	1		
9	Sl. No. 98 of Annex 8	Knife switch	DPDT fitted with fuse terminals 16 amp	2		
10	Sl. No. 99 of Annex 8	Knife switch	TPDT fitted with fuse terminals 16 amp	2		
11	Sl. No. 96 of Annex 8	Limit Switch - Set	Quick action with 2 NC + 1 NO, 2 NO + 1 NC, Delayed Acton with 2 NC + 1NO, 2 NO + 1 NC	1		
12	Sl. No. 97 of Annex 8	Rotary switch set	16A 500v 3 pole & 16A 500v 4 pole, Qty One each	2		
13	Sl. No. 93 of Annex 8 Sl. No. 114 of Annex 8	Relays - set	Over current, Under voltage, Over voltage, Leak current  Cut out, reverse current, over load, under voltage	1 1		
14	Sl. No. 115 of Annex 8	Starters for 3 Phase, 400V, 50 cycles, A.C. motors - Set	Direct on line tester, Star delta starter, Auto Transformer type, Rotor resistance starter, soft starter, Forward reverse starter driver. Qty One each	1		
15	Sl. No. 35 of Annex 8	M.C.B	16 Amps 2pole 250v, 16Amps 3pole 500v, Qty One each	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>						

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 – 9 Electrical Meters**

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. 73 of Annex 8	Analog multi Meter	0 to 1000 M Ohms, 2.5 to 500 volt	4		
2	Sl. No. 75 of Annex 8	A.C. Voltmeter, MI	0-250-500 V AC	2		
3	Sl. No. 76 of Annex 8	Milli Voltmeter centre zero	100-0-100 m volt	2		
4	Sl. No. 77 of Annex 8	D.C Milli ammeter	0-500mA	2		
5	Sl. No. 78 of Annex 8	D.C. Ammeter MC	0-1 A	2		
6	Sl. No. 79 of Annex 8	Ammeter MC	0-5 A	2		
7	Sl. No. 80 of Annex 8	Ammeter MC	0-15-25 A	2		
8	Sl. No. 81 of Annex 8	A.C. Ammeter MI	0-5A	2		
9	Sl. No. 82 of Annex 8	A.C. Ammeter MI	0-15-25 A	2		
10	Sl. No. 83 of Annex 8	K.W. Meter	0-1-3 Kw, 2.5/5A portable	2		
11	Sl. No. 84 of Annex 8	A.C. Energy Meter	Single phase, 5A, 230V, Induction Type	2		
12	Sl. No. 85 of Annex 8	Single Phase power factor meter	Digital	2		
13	Sl. No. 86 of Annex 8	Frequency Meter	Digital	2		
14	Sl. No. 90 of Annex 8	Tong tester/ Clamp meter	0-5-10A to measure 0-250-500v,	2		
15	Sl. No. 112 of Annex 8	Flux meter	EMF Tester	2		
16	Sl. No. 113 of Annex 8	Lux meter	Portable digital type, 0 - 50000 lux range	2		
17	Sl. No. 142 of Annex 8	Clamp on Ammeter	600A	3		
18	Sl. No. 146 of Annex 8	Earth Resistance Tester	2000 Ohm	2		
19	Sl. No. 164 of Annex 8	Motor Winding Set		1		
20	Sl. No. 111 of Annex 4	Wattmeter multi range up to 1KW		1		
21	Sl. No. 112 of Annex 4	Wattmeter multi range up to 5KW		1		
22	Sl. No. 106 of Annex 4	Voltmeter AC/DC	Portable precision grade teak wood case leather belt 0-5 volt	5		

23	Sl. No. 107 of Annex 4	Ammeter AC/DC	Portable precision grade teak wood case leather belt 0-5 amp	5		
24	Sl. No. 108 of Annex 4	Ammeter AC/DC	Portable precision grade teak wood case leather belt 0-30 amp	5		
25	Sl. No. 153 of Annex 8	High Voltage Probe with meter	Maximum Measuring Voltage: 35kV or 40kV, Digital Type	4		
26	Sl. No. 156 of Annex 8	Digital Counter with all accessories	Measuring Frequency Range: 0-1000 MHz Measuring Time Range 10s to 1 ns.	2		
27	Sl. No. 87 of Annex 8	Tachometer with stop watch	Digital	3		
28	Sl. No. 74 of Annex 8 Sl. No. 114 of Annex 4 Sl. No. 126 of Annex 7	Digital Multimeter		8 2 4		
29	Sl. No. 113 of Annex 4	Analog multi Meter		5		
<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 – 10 Electrical Appliances**

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. 23 of Annex 8	Ceiling Fan	AC 230 V, 1200 mm	2		
2	Sl. No. 104 of Annex 8	Electric Hot plate	1500 watt. 230 V	3		
3	Sl. No. 105 of Annex 8	Electrical Kettle	1000 watts, 230V	3		
4	Sl. No. 106 of Annex 8	Electric Iron box	1200 watts, 230 V with temperature control	3		
5	Sl. No. 107 of Annex 8	Immersion heater	1000W,230V	3		
6	Sl. No. 108 of Annex 8	Geyser	25 litre – 240 V (Storage type)	2		
7	Sl. No. 109 of Annex 8	Induction stove		2		
8	Sl. No. 110 of Annex 8	Microwave Oven		2		
9	Sl. No. 111 of Annex 8	Electric Cooker		2		
10	Sl. No. 134 of Annex 8	Sodium vapor Lamp fitting	240v, 80W	2		
11	Sl. No. 135 of Annex 8 Sl. No. 145 of Annex 8	Florescent lamp fitting (2 nos.) Tube Light Set (5 nos.)	40 W /230 V/50 Hz, 4Ft.	2 5		
12	Sl. No. 136 of Annex 8	Mercury vapor lamp fitting	240v, 80W	2		
13	Sl. No. 143 of Annex 8	Domestic water pump with starter	1 HP	3		
14	Sl. No. 144 of Annex 8	Electric Toaster	250 W Heating Element & Heating adjustment, 230 V	2		
15	Sl. No. 147 of Annex 8	Semi Automatic Washing machine	Capacity 3.5 Kg	2		
16	Sl. No. 148 of Annex 8	Automatic Washing machine	Capacity 3.5 Kg	2		
17	Sl. No. 149 of Annex 8	Wall Fan	18" sweep dia	3		
18	Sl. No. 158 of Annex 8	Mini drill machine for P.C.B's with accessories and power supply	12V operating voltage DC	1		
19	Sl. No. 159 of Annex 8	High speed Drill Set	1mm to 6 mm (11 pieces in each)	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>						

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

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**LOT – 11 Electronic 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	Sl. No. 101 of Annex 8	Inverter, sine wave	1 KVA Input 12 Volt DC, Output 220 volt AC with 12 battery	2		
2	Sl. No. 28 of Annex 8	Discrete Component trainer		1		
3	Sl. No. 29 of Annex 8	Linear Digital I.C Trainer		1		
4	Sl. No. 140 of Annex 8	Booths for domestic wiring		2		
5	Sl. No. 103 of Annex 8	Rheostat set	Tubular type of ranges 0-1 Ohm 5 Amp, 0-10 Ohm 5 Amp, 0 – 25 Ohm 1 Amp, 0 – 300 Ohm 1 Amp, 0 - 1000 Ohm 0.5Amp, Qty One each	3		
6	Sl. No. 154 of Annex 8	DTMF telephone trainer		2		
7	Sl. No. 27 of Annex 8	Function Generator Trainer Kit		1		
8	Sl. No. 150 of Annex 8	Radio Receiver AM & FM with FM Stereo	Output power 5W +5W rms, Operating Voltage 230V AC & DC 9V (all Transistorized or Section wise IC's)	4		
9	Sl. No. 89 of Annex 8	Potential transformer	1000/500V, 500/200 V	2		
10	Sl. No. 30 of Annex 8	Digital I.C Trainer		1		
11	Sl. No. 88 of Annex 8	Current Transformer	20/5 Amp, 10/1 Amp, Qty one each	2		
12	Sl. No. 151 of Annex 8	Stabilized low voltage power supply	-50V to +50V Regulated Adjustable DC Output with Voltmeter & Ammeter, 3V, 6V, 12V Separate AC Outputs	1		
13	Sl. No. 157 of Annex 8	Alignment tool kit	For Radio Aligning	1		

14	Sl. No. 110 of Annex 4	Variac	In output 230V output 400 V. Portable complete with meterstand controls	1		
15	Sl. No. 91 of Annex 8	Megger set	500 Volts & 1000 Volts, Generator type, Qty One each	2		
16	Sl. No. 92 of Annex 8	Wheat stone bridge	Complete with galvanometer and battery	2		
17	Sl. No. 100 of Annex 8	DC power supply	0 – 100 volt, 5 amp	3		
18	Sl. No. 102 of Annex 8	Servo Voltage Stabilizer	Input 150-230 volt AC, Output 220 Volt AC 1KVA	2		
19	Sl. No. 132 of Annex 8	Auto transformer	3.5kW. 415V, 3phase	1		
20	Sl. No. 31 of Annex 8	Battery charger	With variable output 1 KW	2		
21	Sl. No. 109 of Annex 4	MEGGER	1000 v	1		
22	Sl. No. 167 of Annex 8	Electronic Flasher		1		
23	Sl. No. 117 of Annex 4	RLC Bridge		1		
24	Sl. No. 137 of Annex 8	Neon Sign lamp board	Demonstratio n , 240V	1		
25	Sl. No. 152 of Annex 8	Pattern generator with all accessories	PAL B/G & NTSC, Horizontal lines, Cross Hatch with Circle, dot pattern in B/W, Colour Bars, Red Raster & White Raster in Colour	1		
26	Sl. No. 156 of Annex 8	Micro Processor Training kit	CPU operating @2.5/5 hz	8		
<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>						
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**LOT – 12 Automobile Items**

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	1/7	Cut section model of demonstration chassis working with electricals – Two wheeler Petrol vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
2	2/7	Cut section model of demonstration chassis working with electricals – MPFI system vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
3	3/7	Cut section model of 4 cylinder 4 stroke petrol engine working with electricals- Carburetor vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
4	4/7	Cut section model of 4 cylinder 4 stroke diesel engine working with electricals-LCV	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
5	5/7	Cut section model of steering gear box with wheel and axle:	Rack and pinion type, worm and roller type and re-circulating ball type	1		
6	6/7	Cut section model of Airbrake system		1		
7	7/7	Demonstration board of electronic ignition system		1		
8	8/7	Cut section model of power window with one door		1		
9	9/7	Cut section model of automatic transmission of car		1		
10	10/7	Cut section models of different automobile parts set		1		

11	11/7	Cut section model of two wheeler engine and other parts	Petrol engine	1		
12	12/7	Model mock layout of car electrical system		1		
13	13/7	Two wheeler petrol engine	Brand new in working condition with all fittings on castor wheels	1		
14	14/7	Four wheeler petrol MPFI engine	Brand new in working condition with all fittings on castor wheels	1		
15	15/7	CRDI Diesel engine	Brand new in working condition with all fittings on castor wheels	1		
16	16/7	Tyre changer	Max tyre dia 950 mm	1		
17	17/7	Automatic tyre inflator	0-170 psi	1		
18	18/7	Low raise lift	Height 120 – 1000 mm	1		
19	19/7	Two post lift	3200 kgs	1		
20	20/7	Four post lift	With flat runways – 3500 kgs	1		
21	21/7	Petrol compression tester		1		
22	22/7	Mechanical wheel alignment		1		
23	23/7	Diesel injector cleaning machine		1		
24	24/7	Hydraulic bearing puller		1		
25	25/7	Air compressor pressure gauge		1		
26	26/7	Carburetor repair tool kit		1		
27	27/7	Distributor tester		1		
28	28/7	Cylinder gauge, bore dial gauge with std. accessories	50-150 mm	1 set		
29	29/7	Tachometer	Counting type	1		
30	30/7	Connecting rod alignment fixture		1		
31	31/7	Puller set universal bearing and bushes		1 set		
32	32/7	Piston ring compressor		1		
33	33/7	Valve key inserter		1		
34	34/7	Electrical Test Bench		1		
35	36/7	Injector cleaner & Tester		1		
36	37/7	Battery charger		1		
37	38/7	Battery tester	Without printer	1		
38	39/7	Garage Jack, Hydraulic	Cap. 2.5 ton	1		

39	40/7	Hydraulic Bottle Jack	2T	1		
40	41/7	Hyd Garage press- Manually operated	Cap. 50 ton	1		
41	42/7	Torque wrench	Ratchet type	1		
42	43/7	Cylinder Liner extractor		1 set		
43	48/7	Steel Creeper	1030x415x160mm	10		
44	98/7	Double open ended ignition spanner set of 5	0 to 9 mm	5		
45	100/7	Spanner Ring off-set	SAE	4 lots		
46	101/7	Spanner of spark plug	14 mm	10		
47	102/7	Magneto spanner set of 8 spanners		10		
48	109/7	Tray cleaning	45 x 30 cm	20		
49	111/7	Lifter, Valve Spring		5		
50	112/7	Extractor, Stud 'Ezy out' type		5		
51	116/7	Distributor for petrol	Brand new	1		
52	117/7	Carburetor (two different types)	Brand new	1		
53	118/7	Water Pump and Oil Pump – 2 each	Brand new	1 set		
54	119/7	Tachometer Digital		10		
55	120/7	Jack Hydraulic (Trolley type)		3		
56	121/7	Tester spark plug	NEON type	5		
57	122/7	Lifting jack, screw type		3		
58	123/7	Coil spring compressor for suspension spring		1		
59	124/7	Hot patch clamp unit		2		
60	125/7	High rate discharge tester		1		
61	127/7	Pneumatic tools		1 set		
62	128/7	Automobile spray gun		4		
63	129/7	Impact Screw Driver		2 set		
64	134/7	Timing light	xenon	5		
65	135/7	Battery load tester		1		
66	136/7	Continuity meter		1		
67	137/7	Fuel injection pump (Diesel) inline	Brand new	1		
68	138/7	Fuel injection pump (Diesel) rotary	Brand new	1		
69	139/7	Set of governors for diesel pump	Brand new	1		
70	140/7	Petrol nozzle		1 set		
<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 – 13 Automobile Advanced items**

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 Advanced of Annex 7	Fully operational Multi Point Injection Petrol Engine	Complete with Fuel, Ignition, Cooling, Exhaust Systems, Starting and Charging System.	1		
2	Sl. No. 2 Advanced of Annex 7	Fully Operational Single Point Injection Petrol Engine	Complete with Fuel, Ignition, Cooling and Exhaust Systems.	1		
3	Sl. No. 3 Advanced of Annex 7	Fully operational Diesel Engine	Cooling, Turbo and Exhaust Systems, Starting and Charging System – (Volkswagen 1.9 Turbo Diesel Engine Complete with BOSCH Electronic Diesel Control System, fitted with manufactures Diagnostic socket 16Pin)	1		
4	Sl. No. 4 Advanced of Annex 7	Fully operational Diesel Engine,	complete with Fuel, Cooling, Turbo and Exhaust System, Starting and Charging system – (Common Rail Turbo Diesel Engine, Complete Bosch or Siemens Electronic Diesel Control System fitted with manufactures Diagnostic socket 16Pin)	1		
5	Sl. No. 5 Advanced of Annex 7	Sets of all sensors and actuators	Used for modern Engines.	2		
6	Sl. No. 6 Advanced of Annex 7	Simulation of Central Door Locking	With Alarm system and power windows including real working on car door.	1		
7	Sl. No. 7 Advanced of Annex 7	Complete Set of Alarm System		1		
8	Sl. No. 8 Advanced of Annex 7	Complete set of ABS Components		1		
9	Sl. No. 9 Advanced of Annex 7	Complete set of Airbag Components		1		
10	Sl. No. 10 Advanced of Annex 7	Air Compressor	Reciprocating	1		
11	Sl. No. 11 Advanced of Annex 7	Hand held Diagnostic Tester		1		
12	Sl. No. 12 Advanced of Annex 7	Wireless Diagnostic tester include Laptop		1		

13	Sl. No. 13 Advanced of Annex 7	Fully operational ESP Trainer.	Complete with braking circuit and manufactured using original vehicle components. Simulation of wheel lock to active the ABS. pressure gauges indicate individual front and rear line pressures at each wheel. Brake pedal kick back can be observed. Diagnostic socket fitted for the connection of fault code readers	1		
14	Sl. No. 14 Advanced of Annex 7	Fully operated automotive automatic Air Condition System Simulator		1		
15	Sl. No. 15 Advanced of Annex 7	Automotive special Multi Meter		1		
16	Sl. No. 16 Advanced of Annex 7	3D wheel Alignment		1		
17	Sl. No. 17 Advanced of Annex 7	4 Gas Analyzer		1		
18	Sl. No. 18 Advanced of Annex 7	Common Rail Injector Tester		1		
19	Sl. No. 19 Advanced of Annex 7	Lift for wheel Alignment		1		
20	Sl. No. 20 Advanced of Annex 7	Fully operated steering system with all component		1		
21	Sl. No. 21 Advanced of Annex 7	Fully Automatic 'AIRCO' service center with integrated		1		
22	Sl. No. 22 Advanced of Annex 7	Sensors Simulator		1		
23	Sl. No. 23 Advanced of Annex 7	Eprom reader		1		
24	Sl. No. 24 Advanced of Annex 7	Immobilizer Key Programmer		1		
25	Sl. No. 35 of Annex 7	Sparkplug Cleaner & 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>						
<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

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.

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 – 14 Ultrasonic crack detector**

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. 29 of Annex 9	Ultrasonic crack detector		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 – 15 Compter Work station**

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-1	Computers	Latest version	20		
2	Sl. No. 18 of Annex-6	Computers for CNC & Tool design	Latest	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>						
<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 – 16 Computer, Laptop & software**

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-10	Desktops	Latest	20		
2	Sl. No. 3 of Annex 10	Laptops		10		
3	Trg Matl Annex 11	Laptop computer		30		
4	Sl. No 16.02 of Annex 10	MS office – Home & Student with media		40		
<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 – 17 Computer peripherals**

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- 1	Server		1		
2	Sl. No. 19 of Annex-6	Server		1		
3	Sl. No. 1 of Annex-10	Server		1		
4	Sl. No. 5 of Annex- 1	UPS for server		1		
5	Sl. No. 19 of Annex-6	UPS for server		1		
6	Sl. No. 10 of Annex-10	Smart UPS with 16 Batteries		1		
7	Sl. No. 11 of Annex 10	Portable Hard Disks		10		
8	Sl. No. 37 of Annex-3	Interactive White Board		1		
9	Sl. No. 175 of Annex-8	Interactive White Board		1		
10	Sl. No. 9 of Annex-10	Interactive White Board		2		
11	Sl. No. 6 of Annex-1	Networking Hardware set		1 set		
12	Sl. No. 22 of Annex-2	LCD Projector with Screen & Wall mount		1		
13	Sl. No. 8 of Annex-10	LCD Projector with Screen & Wall mount		1		
14	Trg Matl of Annex 11	LCD Projector with Screen & Wall mount		10		
15	Sl. No. 5 of Annex-10.	Wireless Access Point		2 nos		
16	Sl. No. 4 of Annex-10	Wireless Router		1		
17	Sl. No. 6 of Annex-10	Wireless LAN Card		22		
18	Trg Matl of Annex-11	Photo Copier		10		
19	Sl. No. 11 of Annex-1	Plotter		1		
20	Sl. No. 24 of Annex 6	Plotter		1		
21	Sl. No. 7 of Annex-10	Colour Laser Networking Printer		1		
22	Sl. No. 10 of Annex-1	Laser Networking Printer		1		
23	Sl No 23 of Annex-6	Laser Networking Printer		1		
24	Sl. No. 16 of Annex-10	Software (Academic Version)		1 lot		
		Windows Server Standard 2016 R2		1		
		MS SQL Server Standard 2016		1		
		Visual Studio 2017 professional SNGL		1		
		Corel DRAW Graphics Suite X8- Single user license		1		
		CorelDraw Graphics Suite X8 Maintenance (2 yrs)		1		
		Adobe Captivate for Teams- Annual Subscription		1		
		Adobe CS5.5 master collection		1		
		Autodesk 3ds Max 2015 Education Annual Subscription		1		
		Kaspersky internet security 10 users Box pack with 1 year subscription		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>						

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 & fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier)	
<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

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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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 – 18 Welding 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. 17 of Annex 9	Welding Transformer	40-300A	4		
2	Sl. No. 18 of Annex 9	Welding Transformer	40-400A	4		
3	Sl. No. 19 of Annex 9	Welding Rectifier	600A	2		
4	Sl. No. 20 of Annex 9	Spot welding machine		1		
5	Sl. No. 21 of Annex 9	MIG welding equipment	60-400A	3		
6	Sl. No. 22 of Annex 9	TIG welding equipment	40-400A	3		
7	Sl. No. 23 of Annex 9	Submerged arc welding	1000A	2		
8	Sl. No. 24 of Annex 9	Oxy-acetylene gas welding equipment		4		
9	Sl. No. 25 of Annex 9	Portable flame cutting 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>						
<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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8. VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT – 19 Welding Booth & Table**

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. 78 of Annex 9	Welding Booth	Portable type	24		
2	Sl. No. 145 of Annex 4	Welding Table		1		
3	Sl. No. 78 of Annex 9	Welding Table		24		
<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 – 20 Work Holding Devices**

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 83 of Annex 5	Work holding devices	Assorted sizes	1 lot		
2	Sl No. 107 of Annex 6	Work holding devices	Assorted sizes	1 lot		
<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 – 21 Set of Tool Holders for CNC 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	SI No. 107 of Annex 6	Set of Tool holders for CNC machines	Assorted sizes	1 lot		
<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 – 22 Set of work holding clamps and fixtures- Welding**

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. 87 of Annex 9	Set of work holding clamps and fixtures	Assorted sizes	1 lot		
<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 – 23 SOFTWARE FOR DESIGN**

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. 9 of Annex-1	Software for designing & drafting	Autocad	15		
2	Sl. No. 22 of Annex-6	Software	Autocad	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**

**End of Section V**

**PROFORMA FOR STATEMENT OF DEVIATIONS FROM TENDER CONDITIONS**

The following are the particulars of deviations from the requirements of the Instructions to Bidders and Terms & Conditions of contract (To be enclosed for each lot separately): -

CLAUSE	DEVIATION	REMARKS (Including justification)

.....  
Signature and seal of  
the Authorized Signatory

NOTE: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating “No Deviations”.

**PROFORMA FOR COMMERCIAL DETAILS & PREVIOUS EXPERIENCE**

- (i) Is the firm registered with Govt. Authority/ Agency or MNC? If so, a copy of the registration certificate should be enclosed.
- (ii) Name and address of the Banker

Details of major orders for the quoted supplies/services executed during the past three years should be furnished in the following format.

Sl. #	Full Address of Customer	Order No. and Date	Description of Supplies / Services	Qty.	Contract Value in Rs.	Remarks
1	2	3	4	5	6	7

Signature:.....  
 Name:.....  
 Designation:.....

**NOTE:** A certificate from the customer should preferably be enclosed to indicate that the contract was satisfactorily performed.  
**To be enclosed for each lot separately.**

**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 \_\_\_\_\_

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



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

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"/> |   |   |

N.A

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Y N

**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			
Net Profit for the last 3 years Rs. Lakhs			

2 Exports  Y  N  
 If Yes, Turnover for last 3 Years in Rs.Lakhs

3 Specify Countries to which Exports are made  
 USA   
 UK   
 Europe   
 Middle East   
 CIS Countries   
 Others

4 Any Collaboration  Y  N  
 If Yes, Indicate Details  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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
<b>PROFORMA FOR VENDOR REGISTRATION</b>			
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 GUARATNTEE

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)

## 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 TELEMACHNIC.

- 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 - 3D Engraving Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Ref No. Sl. No. 13 of Annex 6- Three Dimensional (3D) Engraving Machine		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>2</b>	<b>Three Dimensional (3D) Engraving Machine</b> with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply.	<b>1</b>
<b>2.1</b>	<b>Major specifications</b>	
2.1.1	Pantograph Ratio Max. Ratio Min. Ratio	Minimum 1:1.5 Minimum 1:10
2.1.2	Work Table	Clamping area: Minimum 200 x 350mm Max. Distance-spindle nose to table top: 360mm ± 20 mm Longitudinal Traverse: ≥ 300 mm Cross Traverse: ≥ 160mm Copyholder table clamping area: ≥ 320x450mm Swivel range: 360°
2.1.3	Spindle	Speed: 1600 to 20000 rpm No. Of Speeds: 10
2.1.4	Spindle vertical movement	Coarse: 3mm Fine: 1mm
2.1.5	Main Motor	≥ 0.5 HP
<b>2.2</b>	<b>Accessories</b>	
2.2.1	Set of Service Tools	1 set
2.2.2	Set of Table clamps	1 set
2.2.3	Collets	3 nos.
2.2.4	Cutters	3 nos.
2.2.5	'T' bolts	1 set
2.2.6	Stylus Holder with one collect and pin	1 no.
2.2.7	Machine Lamp	1 no.
2.2.8	Setting Bar	1 no.
2.2.9	Belts	1 set
2.2.10	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
<b>2.3</b>	<b>Colour:</b> Dual Colour - Soft Grey (RAL-7035) and Himmel Blue (RAL-5015) Polyurethane Paint.	
<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	Foundation bolts with leveling plates - 1 set	

**LOT 2- Hydraulic Pipe Bending Machine**

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Ref. No. Sl. No. 5 of Annex 9		
Item : Hydraulic Pipe Bending Machine		Qty : 1 No.
Sl. No.	Description	Qty
<b>1.</b>	<b>Hydraulic Pipe Bending Machine</b> , Portable 100 mm capacity, standard accessories and Electrical equipment in the machine suitable for Electricals 400V, <b>3 Phase, 50Hz</b> / 230V, 1Ph, 50Hz AC supply.	<b>1</b>
<b>1.1</b>	<b>Major specifications</b>	
1.1.1	Bending capacity	Min. 25mm to 100mm
1.1.2	Bending force	>=30 tonnes
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Double acting hydraulic ram & cylinder	1 No.
1.2.2	Hydraulic high pressure flexible rubber / thermoplastic hose (Length : 2 metres)	2 Nos.
1.2.3	Bending Frame	1 No.
1.2.4	Former adopter	2 Nos.
1.2.5	Formers (sizes: 25,32,40,50,65,80 & 100mm)	1 Set
1.2.6	Side hold blocks with one pair pins	4 Sets
1.2.7	Set of spare seals kit	1 Set
1.2.8	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 – 1/2 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	1 set
1.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	1 set

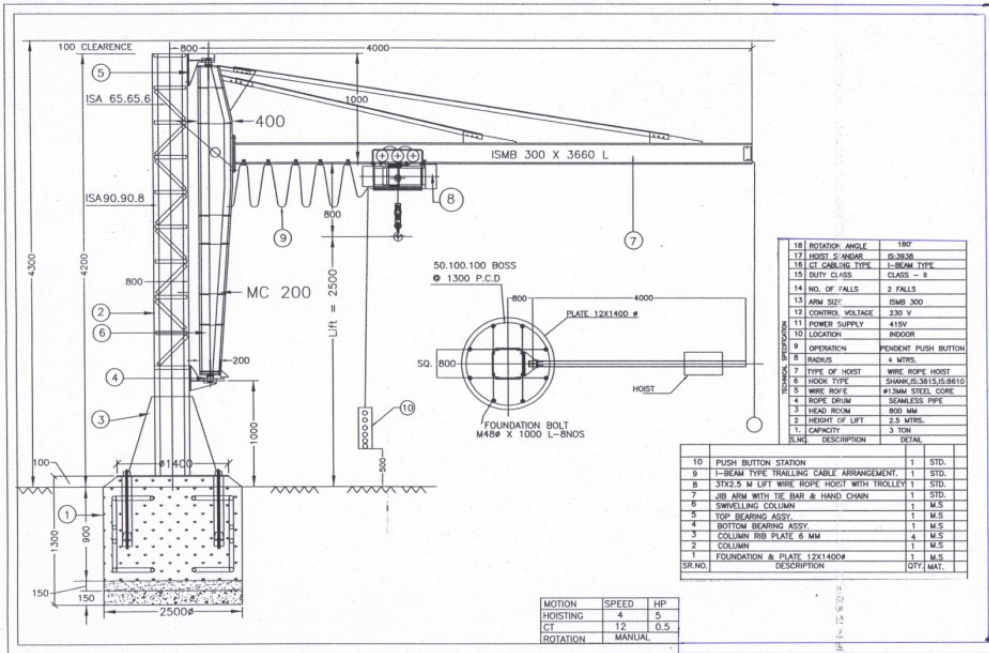
**LOT 3 - Jib Crane**

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref. No. Sl. No. 74 of Annex 6 – 1 no			
Ref. No. Sl. No. 50 of Annex 7 – 1 no			
Sl. No.	Item	Brief Specification	Quantity
1	Jib Crane – Wire rope hoist - 3 Ton with all standard accessories suitable for 3-Phase, 400 V, 50 Hz AC supply. Control Voltage 230V		2 Nos.
1.1	Capacity	3 Ton	
1.2	Height of Lift	2500 mm	
1.3	Radius of Crane	4000 mm	
1.4	Max permissible height from floor	4300 mm	
1.5	Wire rope size	13 mm	
1.6	Hook	Shank type forged with safety latch	
1.7	Angle of movement	180 degrees	
1.8	Rotation	Manual	
1.9	Pendent	Push button type	
2	Required Accessories		
2.1	Hoist Motor Capacity	5 HP	
2.2	Cross Travel motor capacity	0.5 HP	
2.3	Jib Arm with tie bar & hand chain		
2.4	Service Toolkit		1 set
2.5	First fill of oil etc.	Required quantity	1 set
2.6	Operation / Maintenance / Spare parts Manual	3 sets for each Unit	1 set
2.7	Colour	Yellow with black strips.	
3	Recommended Electrical & Mechanical spares for 2 years of normal operation	Item wise quantity with price to be provided	1 set
4	Items required for commissioning at site	Touch up paint – 1 Litre each colour	1 set

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

Ref. No. Sl. No. 74 of Annex 6 – 1 no

Ref. No. Sl. No. 50 of Annex 7 – 1 no



**LOT 4 - Miscellaneous Items**

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar</b>				
<b>Sl. No</b>	<b>Annex Ref</b>	<b>ITEM</b>	<b>Brief Specification</b>	<b>Qty</b>
1	Ref No. Sl. No. 69 of Annex 6	Hand Injection Moulding Machine	<p>Hand Injection Moulding Machine – Hand operated with temperature controller timer.</p> <p><b>Major specifications:</b></p> <p>1.1 Capacity - 60 gms            1.2 Input Power - 1 Ph, 220V, 50Hz AC            1.3 Colour of machine – Standard</p> <p><b>Required Accessories / Spares:</b></p> <p>Consumables – Plastic granules : 10 kg            Die set – (Threaded bottle cap) : 1 set            Die Set – (Identification card) : 1 set            Set of Foundation Kit – Bolts, Nuts, Leveling Plates (if any) : 2 sets            Set of Operation &amp; Maintenance Manuals – 3 nos : 2 sets            First fill of Hydraulic, cooling, lubricating oil : Reqd Qty            Set of Mechanical &amp; Electrical spares recommended for two years normal operation of machine. (Itemwise quantity with price to be provided) : 2 sets</p>	2
2	Ref No. Sl. No. 97 of Annex 6	Oil Drums, measures & dispensers	Consisting of Measures of 50 mL to 5L range with 50 mL, 100mL, 200mL, 500mL, 1L and 5 L capacity, Oil Drum of 200L capacity with Barrel pump & barrel.	1 set
3	Ref No. Sl. No. 98 of Annex 6	Oil Filtering Unit	Porta Filter Oil Filtering Unit used for filtration of Hydraulic, Transformer Oil, Lubricating Oils and Chemicals etc. Enclose Catalogue with specification details.	1 set
4	Ref No. Sl. No. 49 of Annex 7	Chain Pulley Block	<p>Capacity : 3 T</p> <p>Chain Pulley Block : ISI marked triple spur geared alloy steel chain block with the following specifications:</p> <ul style="list-style-type: none"> <li>• Light weight &amp; sturdy</li> <li>• Life long lubrication</li> <li>• Surface hardened gears</li> <li>• Needle roller bearings</li> <li>• Smooth passage of load chain</li> <li>• Smooth hand chain operation</li> <li>• Maintenance free friction brake</li> <li>• High quality grade 80 load chain</li> <li>• Hook with safety latch</li> <li>• Anticorrosive powder coated finish – Colour yellow</li> </ul> <p>Factor of safety : Chain pulley block to be tested at 25% over load            Spares : Recommended spares for 2 years of normal operation</p>	1

**LOT 5 - SET OF HSS CUTTERS:**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
Sl. No.	Annex No.	Descriptions / Brief Specification	QTY	
1	Sl. No 76 of Annex 5 Sl. No 104 of Annex 6	<b>CENTRE DRILL</b>	<b>2 LOTs</b>	
		CENTER DRILL TYPE A 1.6 X 4 MM		20 Nos
		CENTER DRILL TYPE A 2.5 X 6.3 MM		20 Nos
		CENTER DRILL TYPE A 3.15 X 8 MM		20 Nos
		CENTER DRILL TYPE B 2.5 X 10 MM		20 Nos
2	Sl. No 82 of Annex 5 Sl. No 104 of Annex 6	<b>SET OF MILLING CUTTERS - HSS AS INDICATED BELOW</b>	<b>2 LOTs</b>	
		HSS SLITTING SAW 100 X 3 X 27 MM		3 Nos
		SIDE AND FACE CUTTER 125 X 10 X 32 MM		2 No
		SIDE AND FACE CUTTER 80 X 8 X 27 MM		2 No
		SHELL END MILL DIA 50 X 22 MM (BORE)		2 No
		PARALLEL SHANK END MILL DIA 4 MM		10 No
		PARALLEL SHANK END MILL DIA 5MM		10 No
		PARALLEL SHANK END MILL DIA 6 MM		10 No
		PARALLEL SHANK END MILL DIA 8 MM		10 No
		PARALLEL SHANK END MILL DIA 10 MM		5 No
		PARALLEL SHANK END MILL DIA 12 MM		5 No
		PARALLEL SHANK END MILL DIA 14 MM		5 No
		PARALLEL SHANK END MILL DIA 16 MM		5 No
		PARALLEL SHANK END MILL DIA 18 MM		4 No
		PARALLEL SHANK END MILL DIA 20 MM		2 No
		SLOT DRILL DIA 6 MM		10 No
		SLOT DRILL DIA 8 MM		10 No
		SLOT DRILL DIA 10 MM		5 No
		SLOT DRILL DIA 12 MM		5 No
		SLOT DRILL DIA 14 MM		5 No
		SLOT DRILL DIA 16 MM		5 No
SLOT DRILL DIA 18 MM	4 No			
SLOT DRILL DIA 20 MM	2 No			
3	Sl. No 80 of Annex 5 Sl. No 104 of Annex 6	EXPANDING REAMERS – SET – 6-25 mm	2 Lots	
		<b>SET OF HSS REAMERS - EACH SET CONSISTING OF FOLLOWING ITEMS</b>	2 Lots	
		HSS HAND REAMER PARALLEL SHANK DIA 3.0 MM	4 Nos	
		HSS HAND REAMER PARALLEL SHANK DIA 4.0 MM	4 Nos	
		HSS HAND REAMER PARALLEL SHANK DIA 5.0 MM	4 Nos	
		HSS HAND REAMER PARALLEL SHANK 6.0 MM	4 Nos	
		HSS HAND REAMER PARALLEL SHANK 8.0 MM	4 Nos	
		HSS HAND REAMER PARALLEL SHANK 10.0 MM	4 Nos	
		HSS HAND REAMER PARALLEL SHANK 12.0 MM	4 Nos	
		HSS HOLE MILLS UNGUIDED TYPE A (ROUGHING) 11.8 h7	4 Nos	
		HSS HOLE MILLS UNGUIDED TYPE A (ROUGHING) 13.8 h7	4 Nos	
		HSS HOLE MILLS UNGUIDED TYPE A (ROUGHING) 15.8 h7	4 Nos	
		HSS HOLE MILLS UNGUIDED TYPE A (ROUGHING) 17.8 h7	4 Nos	
		HSS HOLE MILLS UNGUIDED TYPE A (ROUGHING) 19.8 h7	4 Nos	
		HSS MACHINE CHUCKING REAMER WITH TAPER SHANK 12.0 MM h7	4 Nos	
		HSS MACHINE CHUCKING REAMER WITH TAPER SHANK 14.0 MM h7	4 Nos	
HSS MACHINE CHUCKING REAMER WITH TAPER SHANK 16.0 MM h7	4 Nos			
HSS MACHINE CHUCKING REAMER WITH TAPER SHANK 18.0 MM h7	4 Nos			
HSS MACHINE CHUCKING REAMER WITH TAPER SHANK 20.0 MM h7	4 Nos			

4	Sl. No 63 of Annex 8 Sl. No 84 of Annex 7 Sl. No 74 of Encl 5 Sl. No 104 of Annex 6	HSS DRILL 1-13 MM STRAIGHT SHANK (IN STEPS OF 0.5MM) - TOTAL 26 PIECES	<b>8 SETS</b>  <b>20 sets</b>  <b>3 sets</b>  <b>3 sets</b>	
5	Sl. No 75 of Annex 5 Sl. No 104 of Annex 6	HSS DRILL 5-10 MM TAPER SHANK (IN STEPS OF 0.5MM) - TOTAL 12 PIECES HSS DRILL 10-30 MM TAPER SHANK WITH 0.5 STEP (41 NOS/SET)	<b>2 sets</b>  <b>2 sets</b>	
7	Sl. No 92 of Annex 4 Sl. No 77 of Annex 5 Sl. No 104 of Annex 6	TAP & DIE SET	<b>6 SETS</b>	
		32 PIECES, METRIC COMBINATION SET - (3x0.5, 3.5x0.6, 4x0.7, 5x0.8, 6x1, 8x1.25, 10x1.5, 12x1.75, 14x2,16x2), 1 X OUTSIDE DIAMETER SPLIT DIES, 1 X TAP WRENCH, 1 X DIE HANDLE, 1 X T HANDLE TAP WRENCH, 1X METRIC PITCH GAUGE		
		<b>SET OF TAP WRENCHES - ONE SET CONSISTING OF FOLLOWING ITEMS</b>		<b>6 SETS</b>
		TAP HANDLE BIG FOR 16MM TAP	2 No	
	TAP HANDLE (TAP WRENCH) NO-1,2&3	2 No		
	Sl. No 92 of Annex 4 Sl. No 77 of Annex 5 Sl. No 104 of Annex 6	<b>SET OF TAP WITH WRENCHES &amp; DIE WITH HANDLES AS INDICATED BELOW</b>		<b>3 sets</b>
		HAND TAP M3 X 0.5 MM		2 nos
		HAND TAP M4 X 0.7 MM		2 No
		HAND TAP M5 X 0.8 MM		2 No
		HAND TAP M6 x 1 MM		2 No
		HAND TAP M8 X 1.25 MM		2 No
		HAND TAP M10 X 1.5 MM		2 No
		HAND TAP M 12 X 1.75 MM		2 No
		HAND TAP M14 x 2 MM		2 No
		HAND TAP M16 X 2 MM		2 No
		HAND TAP M18 x 2.5 MM		2 No
		HAND TAP M20 x 2.5 MM		2 No
		MACHINE TAP LONG M6 X 1		10 Nos
		MACHINE TAP LONG M8 X 1.25		10 Nos
		MACHINE TAP LONG M10 X 1.5		10 Nos
		MACHINE TAP LONG M12 X 1.75		10 Nos
		MACHINE TAP LONG M16 X 2		10 Nos
		MACHINE TAP LONG M20 X 2.5		2 Nos
DIE WITH DIE HANDLE M5 HSS			2 No	
DIE WITH DIE HANDLE M6 HSS			2 No	
DIE WITH DIE HANDLE M8 HSS		2 No		
DIE WITH DIE HANDLE M10 HSS		2 No		
DIE WITH DIE HANDLE M12 HSS		2 No		
Sl. No. 26 of Annex 5 Sl. No. 78 of Annex 6	DIE STOCK		9 sets	
	M3-M16			
	<b>REDUCTION SLEEVES</b>		<b>1 set</b>	
	MT5-MT4		4 nos	
	MT4-MT3		4 nos	
	MT3-MT2		4 nos	
	MT2-MT1		4 nos	
	SET OF DRIFTERS		<b>1 set</b>	



## LOT 6 - SET OF CARBIDE TOOLS

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Sl. No 103 of Annex 6		
Sl. No 78 of Annex 5		
Sl. No 79 of Annex 5		
Sl. No 81 of Annex 5		
SL NO	Description	QTY
<b>A</b>	<b>FACE MILLING</b>	
1	DIA 80MM CUTTER	8
2	INSERTS FOR ABOVE CUTTER	100
	<b>SQUARE SHOULDER MILL</b>	
3	SQ SH MILL CUTTER DIA 63.0 MM	4
4	SQ SH MILL CUTTER DIA 80.0 MM	4
5	INSERTS FOR ROUGH MILLING FOR SQ SH MILL	200
<b>B</b>	<b>SLOT MILLING CUTTER</b>	
4	SLOT MILLING CUTTER DIA 80.0 MM	4
	SLOT WIDTH 12 MM	
	SUITABLE FOR LONG ARBOR DIA 27.00 MM	
5	INSERTS FOR ABOVE SLOT MILLING CUTTER	100
<b>C</b>	<b>TURNING TOOLS (25 x 25)</b>	
1	RH TURNING AND FACING TOOL HOLDER	10
1.1	INDEXABLE INSERT	100
2	RH COPYING TOOL	10
2.1	INDEXABLE INSERT	100
3	RH 35 DEGREE [60 DEG] COPYING	10
3.1	INDEXABLE INSERT	100
4	RH EXTERNAL THREADING [FOR 60 DEG]	10
4.1	EXTERNAL INSERT [60 DEG]	100
5	RH INTERNAL THREADING [FOR 60 DEG]	10
5.1	INTERNAL INSERT [60 DEG]	100
6	RH PARTING TOOL (for 3 mm)	10
6.1	PARTING INSERT 3 mm	100
7	RH EXTERNAL GROOVING TOOL HOLDER FOR 3MM WIDTH GROOVE	10
7.1	INSERT FOR EXTERNAL GROOVING 3MM	100
8	RH INTERNAL GROOVING TOOL HOLDER 3MM	10
8.1	INSERT FOR INTERNAL GROOVING 3MM	100
9	RH BORING BAR D20.0	10
9.1	INDEXABLE INSERT	100
10	RH BORING BAR D32.0	5
10.1	INDEXABLE INSERT	50
11	RH BORING BAR D16.0	6
11.1	INDEXABLE INSERT	60
12	RH BORING BAR D10.0	10
12.1	INDEXABLE INSERT	100

## LOT 7 - Rotary Screw Compressor

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Ref No. Sl. No. 13 of Annex-1 – 1 no Ref No. Sl. No. 72 of Annex-6 – 2 nos Ref No. Sl. No. 26 of Annex-9 – 1 no		4 Nos.
<b>TECHNICAL SPECIFICATION</b>		
Sl. No.	Description	
1	<b>Rotary Screw Air Compressor</b> (Tank Mounted) with all standard accessories suitable for 3-Phase, 400 V, 50 Hz AC supply.	
<b>1.1</b>	<b>Major specifications</b>	
1.1.1	Capacity	>/= 32 CFM
1.1.2	Operating Pressure	>8 Kg/cm <sup>2</sup>
1.1.3	Motor Power	10 HP
1.1.4	Starter	Star Delta/DOL
1.1.5	Type of cooling	Air Cooled
1.1.6	Volume of Air Receiver (Tank Capacity)	250 Litres
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Dryer, Pre & After Filters	Integrated
1.2.2	Sound Level	< 70 dB
1.2.3	Air Oil Separation	< 4 PPM
1.2.4	Service Toolkit	1 Set
1.2.5	Operation, Maintenance and spare parts manual	3 Sets per machine
<b>1.3</b>	<b>Colour: Standard</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	
1.5.3	Initial fill of Coolant, Oil etc., packed in separate containers & sealed	

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

**Ref No. Sl. No. 47 of Annex-7 – 1 no**

Sl. No.	Item	Brief Specification	Quantity
1	<b>Rotary Screw Air Compressor</b> with all standard accessories suitable for 3-Phase, 400 V, 50 Hz AC supply.		1 No.
1.1	Capacity	19 CFM	
1.2	Operating Pressure	8 Kg/cm <sup>2</sup>	
1.3	Motor Power	5 HP	
1.4	Starter	Star Delta	
1.5	Type of cooling	Air Cooled	
1.6	Volume of Air Receiver	> 250 Litres	
2	<b>Required Accessories</b>		
2.1	Dryer, Pre & After Filters	Integrated	
2.2	Sound Level	< 70 dB	
2.3	Air Oil Separation	< 4 PPM	
2.4	Service Toolkit		1 set
2.5	First fill coolant, oil etc.	Required quantity	1 set
2.6	Operation / Maintenance / Spare parts Manual	3 sets for each Unit	1 set
2.7	Colour	Standard Colour	
3	Recommended Electrical & Mechanical spares for 2 years of normal operation	Item wise quantity with price to be provided	1 set
4	Items required for commissioning at site	Touch up paint – 1/2 Litre each colour	1 set

## LOT 8 - Electrical Panels:

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar					
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Remarks / Deviations
1	Sl. No. 32 of Annex 8	E.L.C.B	<p><b>E.L.C.B (Earth Leakage Circuit Breaker)</b> Range: 5KVA</p> <p>Trainer Model with all the input output terminals are brought out on the panel for making external connections mounted on a panel Board with screen-printed notations on 6 mm thick insulated Hylum / Polycarbonate sheet. The equipment to be housed in a wall mounted <b><u>Box of Size 2 x 1.5 feet approximately.</u></b></p> <p><b>Specifications:</b> Input auxiliary voltage : 230V, 400V VAC 50Hz Current Sensitivity range : Variable up to 12A. Tripping time : Variable: 0.15-3 sec Core balance : current-transformer type Relay contacts: One pair of potential free NO &amp; NC Contact Rating : 3 Amps / 230VAC / 24 VDC</p>	1	
2	Sl. No. 33 of Annex 8	R.C.C.B	<p><b>R.C.C.B (Relay Current Circuit Breaker),</b> Range: 5KVA</p> <p>Trainer Model with all the input output terminals are brought out on the panel for making external connections mounted on a panel Board with screen-printed notations on 6mm thick insulated Hylum / Polycarbonate sheet. The equipment to be housed in a wall mounted <b><u>Box of Size 2 x 1.5 feet approximately.</u></b></p> <p><b>Specifications:</b> Input auxiliary voltage : 230V, 400V AC 50Hz Current Sensitivity range : Variable up to 10A Tripping time : Variable: 0 - 30 sec Relay contacts : One pair of potential free NO &amp; NC contact</p>	1	
3	Sl. No. 34 of Annex 8	M.C.C.B	<p><b>M.C.C.B (Miniature Current Circuit Breaker)</b> Range: 5KVA</p> <p>Trainer Model with all the input output terminals are brought out on the panel for making external connections mounted on a panel Board with screen-printed notations on 6mm thick insulated Hylum / Polycarbonate sheet. The equipment to be housed in a wall mounted <b><u>Box of Size 2 x 1.5 feet approximately..</u></b></p> <p><b>Specifications:</b> Input auxiliary voltage: 230V, 400V VAC 50Hz Current Sensitivity range: Variable up to 20A Tripping time Variable: 0 - 30sec Relay contacts: One pair of potential free NO &amp; NC contact</p>	1	

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar					
			Contact Rating: 3 Amps / 230VAC/24 VDC		
4	Sl. No. 127 of Annex 8	Cut Section models of Motors	<p><b>Cut section models of Motors:</b> Quality designed Motor, stand-alone operation. Self-contained and easy to operate.</p> <p>A comprehensive Cut Section of DC Machine designed to explain students, the electrical principle behind their working and describes major Machines parts and students able to see clearly the major component parts of the Machine and how they are interconnected. Input: 200V Fixed DC, 0-200V Variable DC</p> <p><b>Machine Specification One each</b></p> <p>A. Type: DC Shunt Rated Voltage: 200V Rated Power: 1 HP</p> <p>B. Type: DC Compound Rated Voltage: 200V Rated Power: 1 HP</p> <p>C. Type: Three Phase Alternator Rated Voltage: 200V Rated Capacity: 3 KVA</p> <p>D. Type: Three Phase induction motor Squirrel Cage type Rated voltage: 400 V 3 Phase Rated power: 3 Hp</p> <p>E. Type: Three phase induction motor slip ring Rated Voltage: 400 V 3 Phase Rated Power: 3 HP</p>	1 set	
5	Sl. No. 138 of Annex 8	Single phase preventer	<p><b>SINGLE PHASE PREVENTER</b> Single phase preventer trainer model for Protection of induction motors against single phasing or reverse phasing or unbalance supply is one of the major problems in electrical systems. Suitable for the protections of motors of any H.P. Individual trip indication for SPP, reverse phasing and indication for output relay ON. Auto reset type voltage hysteresis gap for tripping on under/over voltage.</p> <p><b>Technical Specifications:</b> System Supply: : 400VAC, Three phase +/- 10%, min 2.2 KW Output contact rating: : 5 Amps at 230 V AC. Trip Time delay: : 2-3 seconds. Reset Mode: : Auto reset. Trip Indications: : For SPP, reverse phasing and relay ON indication.</p> <p>The complete test kit is to be housed in a <b>powder coated metal enclosure of size 2' x 2'</b> rectangular box. The front panel to be made of 6mm thick insulated Hylum / Polycarbonate sheet which should consist of MCB, ELCB, HRC fuses, indicating lamps and insulated terminals. Voltmeter and Ammeter are to be provided for measuring output voltage and current. The block diagram should be</p>	1	

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar					
			printed on the panel in screen printing.		
6	Sl. No. 139 of Annex 8	Earth Leakage Switch	<p><b>EARTH LEAKAGE SWITCH:</b>  Trainer model with the following specifications:  Auxiliary supply : 230/400V AC, 50Hz  Built-in relay contact : 5 amps (resistive) 400V AC or 230 V DC  Core balance C.T. : Toroidal core, bar primary  Number of contacts : One N/O and One N/C.</p> <p>The complete test kit is to be housed in a powder coated metal enclosure of size 2' x 2' rectangular box. The front panel to be made of 6mm thick insulated Hylum / Polycarbonate sheet which should consist of MCB, ELCB, HRC fuses, indicating lamps and insulated terminals. Voltmeter and Ammeter are to be provided for measuring output voltage and current. The block diagram should be printed on the panel in screen printing to show it's working.</p>	1	
7	Sl. No. 94 of Annex 8	Contactora	<p><b>3 phase, 400 volt, 16 amps 2 NO &amp; 2 NC auxiliary contactora mounted on 2' x 2' (L x B)</b> size or suitable size powder coated metallic box. The front panel to be made of 6 mm insulated industrial Hylum / Polycarbonate board with terminals brought out on the panel to make external connections and the Circuit drawing to be screen printed on the panel.</p>	1	
8	Sl. No. 95 of Annex 8	Contactora	<p><b>3 phase, 400 volt, 32 amps 2 NO &amp; 2 NC auxiliary contacts mounted on 2' x 2' (L x B)</b> size or suitable size powder coated metallic box. The front panel to be made of 6 mm insulated industrial Hylum / Polycarbonate board with terminals brought out on the panel to make external connections and the Circuit drawing to be screen printed on the panel.</p>	2	
9	Sl. No. 98 of Annex 8	Knife switch	<p><b>DPDT Knife Switch 16 Amps</b> fitted on Hylum / Polycarbonate industrial panel insulated board of 6 mm <b>thickness and mounted on 2' x 2' (L x B)</b> size or suitable size powder coated metallic box with terminals brought out on the panel with 16 Amps HRC fuse mounted on it to make external connections. Circuit drawing to be screen printed on the panel.</p>	2	
10	Sl. No. 99 of Annex 8	Knife switch	<p><b>TPDT Knife Switch 16 Amps</b> fitted on hylem industrial panel insulated board of 6 mm <b>thickness and 2' x 2' (L x B) size or suitable size</b> powder coated metallic box with terminals brought out on the panel with 16 Amps HRC fuse mounted on it to make external connections. Circuit drawing to be screen printed on the panel.</p>	2	
11	Sl. No. 96 of Annex 8	Limit Switch - Set	<p><b>Limit switch Quick action</b> with 2NC + 1NO,2NO+ 1NC, fitted on hylem industrial panel insulated board of 6 mm thickness and <b>mounted on 2' x 2' (L x B) size or suitable size</b> powder coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be</p>	1 set	

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar					
			<p>screen printed on the panel.</p> <p><b>Limit switch Delayed action</b> with 2NC + 1NO, 2NO + 1 NC, fitted on hylem industrial panel insulated board of 6 mm thickness and mounted on 2' x 2' (L x B) size or suitable size powder coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p>		
12	Sl. No. 97 of Annex 8	Rotary switch set	<p><b>Rotary switch 16 A 500V 3 Pole</b> fitted on hylem industrial panel insulated board of 6 mm <b>thickness and 2' x 2' (L x B) size or suitable size</b> powder coated metallic box with terminals brought out on the panel with 16 Amps HRC fuse mounted on it to make external connections. Circuit drawing to be screen printed on the panel.</p> <p><b>Rotary switch 16 A 500V 4 Pole</b> fitted on hylem industrial panel insulated board of 6 mm <b>thickness and 2' x 2' (L x B) size or suitable size</b> powder coated metallic box with terminals brought out on the panel with 16 Amps HRC fuse mounted on it to make external connections. Circuit drawing to be screen printed on the panel.</p>	2 sets	
13	Sl. No. 93 of Annex 8	Relays - set	<p><b>Over current, leakage current (Earth leakage) relay</b> with current injection kit 0-20A with time interval meter fitted on hylem industrial panel insulated board of 6 mm thickness and <b>mounted on 2' x 2.5' (L x B) size or suitable size</b> powder coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p>	1	
	Sl. No. 114 of Annex 8		<p><b>Under voltage, Over voltage with voltage injection kit 0-450v</b> with time interval meter fitted on Hylum / Polycarbonate industrial panel insulated board of 6 mm thickness and mounted on 2' x 2.5' (L x B) size or suitable size powder coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p>	1	
14	Sl. No. 115 of Annex 8	Starters for 3 Phase, 400V, 50 cycles, A.C. motors - Set	<p><b>Set consisting of following</b></p> <p><b>Direct on line starter</b> for 3 Phase 400V 50 Hz 1.5 kw, with No Volt &amp; overload protection fitted on hylum/polycarbonate industrial panel insulated board of 6 mm thickness and <b>mounted on 2' x 2' (L x B) size or suitable size powder</b> coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p> <p><b>Star delta starter</b> for 3 Phase 400V 50 Hz 3.75 KW fitted on hylem industrial panel insulated board of 6 mm thickness and <b>mounted on 2' x 2.5' (L x B) size or suitable size powder coated</b> metallic box</p>	1 Set	

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar					
			<p>with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p> <p><b>Auto transformer starter</b> for 3 Phase 400V 50Hz 3.75 KW fitted on hylem industrial panel insulated board of 6 mm thickness and mounted on 3' x 2' (L x B) size or suitable size powder coated metallic box with terminals brought out on the panel to make external connections and attached to auto transformer unit. Circuit drawing to be screen printed on the panel.</p> <p><b>Rotor Resistance starter</b> for 3 Phase 400V 50 Hz 2.2 KW fitted on hylem industrial panel insulated board of 6 mm thickness and <b><u>mounted on 2' x 2' (L x B) size or suitable size</u></b> powder coated metallic box with terminals brought out on the panel to make external connections and attached to rotor resistance unit. Circuit drawing to be screen printed on the panel.</p> <p><b>Soft starter AC drive VFD</b> (Programmable) for Three phase input and Three phase output 3.75 KW fitted on hylem industrial panel insulated board of 6 mm thickness and mounted on 3' x 2' (L x B) size or suitable size powder coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p> <p><b>Forward Reverse starter</b> for 3 phase 400V 50Hz suitable for 1.5 KW with contactor NC inter lock fitted on hylem industrial panel insulated board of 6 mm <b><u>thickness and mounted on 2' x 2' (L x B) size or suitable size</u></b> powder coated metallic box with terminals brought out on the panel to make external connections. Circuit drawing to be screen printed on the panel.</p> <p>One 5HP 1440rpm Squirrel cage induction motor and One 3 HP 1500 rpm Slip ring motor foot mounted with star/delta connections to be supplied for conducting experiments &amp; working of all above starters.</p>		
15	Sl. No. 35 of Annex 8	M.C.B	<p>One each <b>MCB</b> type of</p> <ol style="list-style-type: none"> <li>2 pole 250V, 16 Amps rated mounted on MCB panel</li> <li>3 pole 500V, 16 Amps rated mounted on MCB panel</li> </ol>	2 Sets	



## LOT 9 - Electrical Meters

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar					
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Make
1	Sl. No. 73 of Annex 8	Analog multi Meter	<b>Analog multi meter</b> with pair of test leads, carrying case, battery, instruction manual and accessories fuse to measure AC - DC volts & currents, resistance, continuity testing with 9V power and measuring range 0 to 1000 M ohms and testing voltage of 2.5 to 500 volts	4	MECO / EIC / ISI STANDARD
2	Sl. No. 75 of Annex 8	A.C. Voltmeter, MI	Multi Range: 0-250- 500 V AC, MI with anti parallax mirror, Knife edge pointer, portable type	2	MECO / EIC / ISI STANDARD
3	Sl. No. 76 of Annex 8	Milli Voltmeter centre zero	Portable <b>milli voltmeter with centre zero</b> 100 – 0 -100 millivolts, portable type with anti parallax mirror, Knife edge mirror	2	ISI STANDARD
4	Sl. No. 77 of Annex 8	D.C Milli ammeter	Portable <b>milli ammeter</b> of range: 0 - 500 mA MC, Class-1 portable type with anti parallax mirror, Knife edge mirror	2	MECO / EIC / ISI STANDARD
5	Sl. No. 78 of Annex 8	D.C. Ammeter MC	Portable <b>Ammeter</b> of Range: 0 – 1 A,MC, portable type with anti parallax mirror, Knife edge mirror	2	MECO / EIC / ISI STANDARD
6	Sl. No. 79 of Annex 8	Ammeter MC	Portable, MC, Range: 0-5 A	2	MECO / EIC / ISI STANDARD
7	Sl. No. 80 of Annex 8	Ammeter MC	Portable, MC, Range: 0-15-25 A	2	MECO / EIC / ISI STANDARD
8	Sl. No. 81 of Annex 8	A.C. Ammeter MI	Portable , MI, Range 0-5 A	2	MECO / EIC / ISI STANDARD
9	Sl. No. 82 of Annex 8	A.C. Ammeter MI	Portable, MI, Class-1, Multi Range 0-15-25 A	2	MECO / EIC / ISI STANDARD
10	Sl. No. 83 of Annex 8	K.W. Meter	Portable watt meter dynamo motor type of multi range 0-1-3 KW, 2.5/5A with anti parallax mirror and knife edge pointer.	2	ISI STANDARD
11	Sl. No. 84 of Annex 8	A.C. Energy Meter	Induction type, Single phase, 230 V, <b>50Hz</b> , 5A panel mounting type	2	MECO / EIC / ISI STANDARD
12	Sl. No. 85 of Annex 8	Single Phase power factor meter	Portable Digital power factor of 0.5 lag to 0.5 lead, 0-110- 230 Volts, current of 1-5 Amps	2	ISI STANDARD
13	Sl. No. 86 of Annex 8	Frequency Meter	Digital <b>frequency meter</b> with main frequency range of 30 Hz to 90 Hz & 0.01 resolution, 180 - 230V AC power supply.	2	ISI STANDARD
14	Sl. No. 90 of Annex 8	Tong tester/ Clamp meter	0 - 5 -10 Amps, provision to measure voltage of 0 -250 - 500 volts digital type	2	ISI STANDARD
15	Sl. No. 112 of Annex 8	Flux meter	<b>Digital flux meter</b> : To measure DC Magnetic fields, voltage integration, ferro magnetic detectors, EMF Tester. <b>Specification:</b> Input Power : 230 V, 50Hz, 25VA. Input Resistance : 10 Kilo Ohms Output Resistance : 1 Kilo Ohms	2	ISI STANDARD

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar

Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Make
			Output Voltage: 1 Kilomaxwell turns Display: LED/LCD		
16	Sl. No. 113 of Annex 8	Lux meter	<b>Portable Lux meter</b> with LCD/LED display, 0-50000 Lux range, 1Lux resolution	2	ISI STANDARD
17	Sl. No. 142 of Annex 8	Clamp on Ammeter	Digital <b>Clamp meter</b> with accessories like test leads, carrying case, manual. etc. with 3 1/2 digits 2000 counts display to measure AC current up to 600A, AC Voltage, DC voltage, resistance, diode test. etc	3	MECO / EIC / ISI STANDARD
18	Sl. No. 146 of Annex 8	Earth Resistance Tester	<b>DIGITAL EARTH RESISTANCE TESTER</b> <b>Earth Resistance:</b> 0-2000 Ω <b>Earth Voltage:</b> 0-200V <b>Display:</b> Digital display	2	ISI STANDARD
19	Sl. No. 164 of Annex 8	Motor Winding Set	Armature winding of FHP AC motor set for motor winding practice. The set should contain the following: <ul style="list-style-type: none"> <li>• Shaft</li> <li>• Insulating paper</li> <li>• Bearings with assembly manual</li> <li>• Rotor</li> <li>• Copper coil</li> <li>• Body</li> </ul>	1	ISI STANDARD
			Armature winding of FHP DC motor set for motor winding practice. The set should contain the following: <ul style="list-style-type: none"> <li>• Brush holder</li> <li>• Shaft</li> <li>• Insulating paper</li> <li>• Commutator</li> <li>• Bearings with assembly manual</li> <li>• Carbon brush</li> <li>• Rotor</li> <li>• Copper coil</li> <li>• Body</li> </ul>	1	ISI STANDARD
20	Ref No. Sl. No. 111 of Annex 4	Wattmeter multi range up to 1KW	Digital Wattmeter of range 0-1KW with floating decimal point, max current 5Amp with 4 digits, 7 segments, bright LED/LCD display of 150 to 300 volts AC, 50Hz	1	ISI STANDARD
21	Ref No. Sl. No. 112 of Annex 4	Wattmeter multi range up to 5KW	Digital Wattmeter of range 0-5KW with floating decimal point, max current 5Amp with 4 digits, 7 segments, bright LED/LCD display of 150 to 300 volts AC, 50Hz	1	ISI STANDARD
22	Ref No. Sl. No. 106 of Annex 4	Voltmeter AC/DC	Ammeter AC/DC Digital portable precision grade teak wood case leather belt type, 0-5 V range.	7	ISI STANDARD
23	Ref No. Sl. No. 107 of Annex 4	Ammeter AC/DC	Ammeter AC/DC Digital portable precision grade teak wood case leather belt type, 0-5 A range.	5	ISI STANDARD
24	Ref No. Sl. No. 108 of Annex 4	Ammeter AC/DC	Ammeter AC/DC Digital portable precision grade teak wood case leather belt type, 0-30 A range.	5	ISI STANDARD

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar

Sl. No	Annex Ref.	ITEM	Brief Specification	Qty	Make
25	Ref No. Sl. No. 153 of Annex 8	High Voltage Probe with meter	High Voltage Probe with meter used to measure high voltages in TV sets, power supplies, laboratories and for general high voltage commercial applications.  <b>Maximum Measuring Voltage:</b> 35kV / 40kV <b>Type:</b> Digital	4	ISI STANDARD
26	Ref No. Sl. No. 156 of Annex 8	Digital Counter with all accessories	<b>Digital Counter with all accessories</b> to study the fundamental principle and functioning of Digital Counter.  <b>Technical specification:</b> <b>Frequency range:</b> 0 to 1000 Mhz <b>Time Range:</b> 10s to 1ns <b>Frequency display:</b> LCD/LED <b>Power supply:</b> 220 V AC+/- 10% 50Hz  <b>Instruction Manual:</b> Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.  <b>Set of spare parts recommended for 2 years normal operation</b>	2	ISI STANDARD
27	Ref No. Sl. No. 87 of Annex 8	Tachometer with stop watch	Digital <b>Tachometer with stopwatch</b> Non Contact type with 4 digit LED/LCD display and range upto 10,000 rpm	3	ISI STANDARD
28	Sl. No. 74 of Annex 8  Sl. No. 114 of Annex 4  Sl. No. 126 of Annex 7	Digital Multimeter	<b>Digital multi meter</b> with pair of test leads, carrying case, battery, instruction manual and spare fuse to measure AC - DC volts and currents, resistance, continuity testing, palm size with built-in tilt stand, 3½ digit – 1999 counts display with 9v battery power	8  2  4	ISI STANDARD
29	Sl. No. 113 of Annex 4	Analog multi Meter	<b>Analog multi meter</b> with pair of test leads, carrying case, battery, instruction manual and accessories fuse to measure AC - DC volts & currents, resistance, continuity testing with 9V power and measuring range 0 to 100 M ohms and testing voltage of 2.5 to 500 volts	5	ISI STANDARD
30	Ref No. Sl. No. 168 of Annex 8	Neon Tester with insulated handle	Screw driver type with neon light indicator of 100 mm length with tip width of 3.5 mm and above 100 v Taparia/ Ambica/ Eastman/ Everest or ISI marked	2	ISI STANDARD

**LOT 10 - Electrical Appliances**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty
1	Sl. No. 23 of Annex 8	Ceiling Fan	Ceiling Fan of AC 230 V, 1200 mm blades	2
2	Sl. No. 104 of Annex 8	Electric Hot plate	1500W, 230V with temp control	3
3	Sl. No. 105 of Annex 8	Electrical Kettle	Electrical Kettle Cordless with 360 degree rotational base and a capacity of 1.7 litres, Stainless steel body, Concealed stainless steel heating element, Water level gauge, Auto off on boiling, On/Off switch with light indicator, 1000 Watts 230V power	3
4	Sl. No. 106 of Annex 8	Electric Iron box	Automatic Iron box with minimum 1200Watts, 230V, Variable steam control, and auto shut off and temp control.	3
5	Sl. No. 107 of Annex 8	Immersion heater	Immersion heating coil set consisting of 1000W, 230V	3
6	Sl. No. 108 of Annex 8	Geyser	Geyser of minimum 25 litres capacity – 230 V (Storage type)	2
7	Sl. No. 109 of Annex 8	Induction stove	Electric Induction stove of minimum 120 W to 2000W, 8 bands adjustable power, Digital display to show time, power & temp, Minimum temperature of 70 to 270 deg, 8 bands adjustable, with Multi function & timer.	2
8	Sl. No. 110 of Annex 8	Microwave Oven	Micro Oven of minimum 30 Litres capacity convection type.	2
9	Sl. No. 111 of Annex 8	Electric Cooker	Automatic Electric Rice Cooker 1.8 Litre Capacity (Raw Rice) 700 Watts, 230 V, Single phase, AC Electric supply, Teflon coated cooking pan Cooking indicator, Detachable power cord Auto shut off	2
10	Sl. No. 134 of Annex 8	Sodium vapor Lamp fitting	240v, 80W	2
11	Sl. No. 135 of Annex 8 Sl. No. 145 of Annex 8	Florescent lamp fitting (2 nos.) Tube Light Set (5 nos.)	230 V, 4 ft, Electronic choke 40W, 50 Hz	2 nos, 5 nos.
12	Sl. No. 136 of Annex 8	Mercury vapor lamp fitting	240 V, 80 W	2
13	Sl. No. 143 of Annex 8	Domestic water pump with starter	Water Pump Single Stage, Self-priming type, with Manganese / Bronze impellers. Steel shafts and close grained Cast Iron parts. Capacity of 1 HP	3
14	Sl. No. 144 of Annex 8	Electric Toaster	Auto Pop Electric Toaster, 2 Slice capacity, 250 Watts, 230 V, Single phase, AC Electric supply, Auto pop up, Cool touch body, Variable browning control, Cord storage, 250 W Heating Element & Heating adjustment	2
15	Sl. No. 147 of Annex 8	Semi Automatic Washing machine	Washing machine Semi automatic of minimum 3.5 Kg Capacity, Minimum 2 wash program, 240V 50 Hz AC Power supply	2
16	Sl. No. 148 of Annex 8	Automatic Washing machine	Washing machine Fully automatic of minimum 3.5 Kg Capacity, Minimum 8 wash program, 240V 50 Hz AC Power supply	2
17	Sl. No. 149 of Annex 8	Wall Fan	Wall fan of 18" sweep blade size	3
18	Sl. No. 158 of Annex 8	Mini drill machine for P.C.B's with accessories and power supply	A compact tabletop High speed Mini drill machine for P.C.B's with complete accessories and with power supply. <b>Features:</b> <ul style="list-style-type: none"> <li>• Rugged and sturdy construction</li> <li>• Longer operational life</li> </ul>	1

**LOT 10 - Electrical Appliances**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<ul style="list-style-type: none"> <li>• Optimum performance</li> <li>• Minimum power consumption</li> </ul> <p><b>Drilling Size:</b> 0.5-3 mm  <b>Table size:</b> Minimum 220x120 mm  <b>Bed Type:</b> Regular PCB Drilling Bed  <b>Operating Voltage:</b> 12V DC</p>	
19	Sl. No. 159 of Annex 8	High speed Drill Set	1 to 6 mm (11 pieces) in each set	2 sets

**LOT 11 – Electronic Trainers**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty
1	Sl. No. 101 of Annex 8	Inverter, sine wave	<p><b><u>Inverter, Sine Wave:</u></b></p> <p>To study about conversion of DC into AC.</p> <ul style="list-style-type: none"> <li>• To understand the function of Inverter</li> <li>• Different blocks can be explained like charging of battery, DC to AC conversion.</li> <li>• To understand the charging of battery</li> <li>• To study the Inverter circuit</li> <li>• To study the different faults and there troubleshooting in Inverter circuit</li> </ul> <p><b>Output voltage:</b> 230 V AC  <b>Battery:</b> 12V DC  <b>Power:</b> 1KVA  <b>Main Supply:</b> 230 V ±10 %, 50Hz</p> <p><b>Instruction Manual:</b>            Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.</p> <p><b>Set of spare parts recommended for 2 years normal operation</b></p>	2
2	Sl. No. 28 of Annex 8	Discrete Component trainer	<p><b><u>Discrete component</u></b> Trainer:            With built-in power supply to study basic semiconductor devices. Connections through Sturdy banana sockets and patch cords.</p> <p><b>Components:</b> Resistors, Capacitors, Inductors, diodes, NPN&amp; PNP Transistors, BJT, FET, MOSFET etc.</p> <p><b>Power Supply:</b> 230 V ±10 %, 50Hz</p> <p><b>Instruction Manual:</b>            Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.</p> <p><b>Set of spare parts recommended for 2 years normal operation</b></p>	1
3	Sl. No. 29 of Annex 8	Linear Digital I.C Trainer	<p><b><u>Linear Digital I.C Trainer:</u></b> With built-in DC power supply of 5V. On board resources such as logic switches/inputs for providing inputs to digital ICs.</p> <p><b>Digital Circuits to be covered:</b> Minimum - Basic logic gates, Universal gates, Flip-flops, Counters, Multiplexers / Demultiplexers, Encoder / Decoder, Full/Half Adder &amp; Subtractor.</p>	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<p><b>Connections:</b> Easy interconnections between circuits  <b>Indicators:</b> LCD/LED  <b>Power Supply:</b> 230 V <math>\pm</math>10 %, 50Hz</p> <p><b>Instruction Manual:</b>            Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.</p> <p><b>Set of spare parts recommended for 2 years normal operation</b></p>	
4	Sl. No. 140 of Annex 8	Booths for domestic wiring	Booths for domestic wiring – 9ft x 4ft x 4ft with pine wood / silver oak / rubber wood $\geq$ 35mm thick fitted on Slotted angle 18G 1.5"x1.5". Wood should be with good finishing.	2
5	Sl. No. 103 of Annex 8	Rheostat set	Single Phase Tubular type <b>Rheostats</b> of following ranges : a. 0-1 Ohm, 5 Amp, b. 0-10 Ohm, 5 Amp, c. 0–25 Ohm, 1 Amp, d. 0–300 Ohm, 1 Amp, e. 0 – 1000 Ohm, 0.5 Amp (one Set consisting of One each above)	3
6	Sl. No. 154 of Annex 8	DTMF telephone trainer	<p>DTMF Telephone Trainer            To study working principle &amp; various faults of DTMF Telephone Trainer</p> <ul style="list-style-type: none"> <li>• Study of the Working of Dialer Section &amp; of DTMF Signals</li> <li>• Study of the Working of Ringer, Dialer section, Ringer volume control</li> <li>• To Study different faults &amp; troubleshooting</li> <li>• Telephone instruments required for training to be provided.</li> <li>• Test Points to be provided</li> </ul> <p>Dialer : DTMF            Power Supply: 220 V <math>\pm</math>10%, 50Hz</p> <p>Instruction Manual:            Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.</p> <p><b>Spare parts recommended for 2 years normal operation:</b></p>	2
7	Sl. No. 27 of Annex 8	Function Generator Trainer Kit	<p><b>Function Generator Trainer</b>            Micro controller based, frequency range 1Hz to 1 MHz, On board frequency range display,  <b>Frequency Ranges:</b> Selectable 1 Hz to 1 MHz  <b>Functions:</b> Sine, Square, Triangle and TTL  <b>Power Supply :</b> 230V AC, 50 Hz <math>\pm</math>10%</p> <p><b>Set of spare parts recommended for 2 years normal operation</b></p>	1
8	Sl. No. 150 of Annex 8	Radio Receiver AM & FM with FM Stereo	Output power 5W rms, Operating Voltage 230V AC & DC 9V (all Transistorized or Section wise ICs)	4

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
9	Sl. No. 89 of Annex 8	Potential transformer	<b>Trainer model of Potential transformer</b> having Primary: 1000/500V and Secondary: 500/200 V with 5VA load to be mounted on 2' x 2' (L x B) size or suitable size powder coated metallic box. The front panel to be made of 6 mm insulated industrial hylum board with terminals brought out on the panel to make external connections and the Circuit drawing to be screen printed on the panel.	2
10	Sl. No. 30 of Annex 8	Digital I.C Trainer	DC regulated power supply of 5V. On board resources such as logic switches/inputs for providing inputs to digital ICs.  <b>Digital Circuits to be covered:</b> minimum - basic logic gates, universal gates, flip-flops <b>Connections:</b> Easy interconnections between circuits <b>Indicators:</b> LCD/LED <b>Power Supply:</b> 230 V $\pm$ 10 %, 50Hz  <b>Set of spare parts recommended for 2 years normal operation.</b>	1
11	Sl. No. 88 of Annex 8	Current Transformer	20/5 Amps, 10/1 Amps – 1 each	2
12	Sl. No. 151 of Annex 8	Stabilized low voltage power supply	DC Regulated Power Supply Dual Output -50v to +50v regulated adjustable DC output with voltmeter & Ammeter, 3v, 6v , 12v separate AC outputs  1. Output Adjustable from 0 to -50V DC, 3A 2. Output Adjustable from 0 to +50V DC, 5A 3. AC output for (i) 3V @3A (ii) 6V @3A (iii) 12V @3A	1
13	Sl. No. 157 of Annex 8	Alignment tool kit	For Radio Aligning	1
14	Sl. No. 110 of Annex 4	Variac	Variac Demonstration Type (Portable) with meters and controls INPUT RANGE Normal: 230V, 50Hz Output: 400 V Efficiency: 90% (approx)	1
15	Sl. No. 91 of Annex 8	Megger set	One each Generator type <b>Megger set</b> of range 500 Volts & 1000Volts	2 sets
16	Sl. No. 92 of Annex 8	Wheat stone bridge	Wheat Stone Bridge Provided with DC power supply and Galvanometer Technical Specifications: DC Power Supply : 5V Resistance : 80 Ohm <b>Type</b> : Variable <b>Range</b> : 0 – 10 KOhm	2
17	Sl. No. 100 of Annex 8	DC power supply	<b>DC power supply</b> Good Regulation and Low Ripple <b>Technical Specification:</b> Output: <b>0-100V, 5A.</b> <b>Protection:</b> Short and Over load <b>Indication:</b> Digital Meter for Voltage and Current Indication. <b>Power Supply:</b> 230 V $\pm$ 10 %,	3
18	Sl. No.	Servo Voltage	<b>SERVO VOLTAGE STABILIZER</b>	2



Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
	102 of Annex 8	Stabilizer	Demonstration model showing the working principle of Servo stabilizer with Servo motor and voltage corrector <b>Specifications;</b> <b>Input Voltage Range:</b> 150V to 230 V AC., Single-phase <b>Output Voltage:</b> 230VAC. Nominal, Internally Settable to 230V to 240V. <b>Output Voltage Indication:</b> By Digital Voltmeter Electronic under/over voltage Protection <b>Upper Limit:</b> 230V AC <b>Lower Limit:</b> 150V AC <b>Over Load Indication:</b> By LED <b>Rating:</b> 1 KVA.	
19	Sl. No. 132 of Annex 8	Auto transformer	<b>Auto transformer</b> three phase 3.5 Kw 400V	1
20	Ref No. Sl. No. 31 of Annex 8	Battery charger	With variable output 1 Kw	2
21	Ref No. Sl. No. 109 of Annex 4	MEGGER	1000 V	1
22	Ref No. Sl. No. 167 of Annex 8	Electronic Flasher	Electronic flasher units are load sensitive, whereby if a bulb failure occurs the flasher rate increases to indicate the failure. Suitable for flasher & hazard light application.  <b>Operating Voltage:</b> 9 - 16 volts D.C	1
23	Ref No. Sl. No. 117 of Annex 4	RLC Bridge	<b>RLC Bridge Meter :</b> Test Frequencies: 100Hz to 100kHz Measurement Accuracy: 0.1% Display: LCD/LED	1
24	Ref No. Sl. No. 137 of Annex 8	Neon Sign lamp board	NEON SIGN LAMP BOARD FOR DEMONSTRATION Neon sign lamp board, 230V made in transparent acrylic box of 3' wide x 1' height x 5' long size base to be made out of 12 mm acrylic sheet and sides to be made out of 3 mm. The neon sign to be in 8" size for letters of "IMITC MONYWA" with different colours. The neon lamp to be complete with transformer / switch gears / cables etc.,	1 no
25	Ref No. Sl. No. 152 of Annex 8	Pattern generator with all accessories	<b>Colour Pattern Generator with all accessories:</b> <b>System:</b> PAL B/G & NTSC <b>Patterns :</b> Minimum – Horizontal lines, Cross Hatch with Circle, dot pattern in B/W, Colour Bars, Red Raster & White Raster in Colour <b>Frequency:</b> 1 Khz Sine wave <b>Video carrier:</b> Lower VHF band : 40-60 MHz Upper VHF band : 170-220 MHz <b>Power supply :</b> 220 V +/- 10 % 50Hz  <b>Instruction Manual:</b> Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<p><b>Set of spare parts recommended for 2 years normal operation:</b></p> <p><b>8085 / 8086 Microprocessor Training Kit</b> to provide basic information about 8085 and 8086 microprocessor and peripherals</p> <p><b>CPU:</b> 8085 / 8086 Microprocessor  <b>ROM:</b> Minimum 64Kbytes EPROM with battery backup  <b>Display:</b> LCD/LED  <b>Keyboard:</b> Hexadecimal  <b>Interface:</b> RS232 C  <b>Bus:</b> All address, data &amp; control lines  <b>Faults:</b> Pins of Address bus, Data bus  <b>Power Supply:</b> 220V ± 10%, 50Hz</p> <p><b>Instruction Manual:</b>            Should contain Information on features, operation and maintenance. Instructional manual having list of Experiments, brief introduction, circuits, apparatus used, procedure, tabulation etc. Well illustrated documents with clean figure, theoretical explanation to be provided. Log of experiments supported with observator tables for easy learning.</p> <p><b>Set of spare parts recommended for 2 years normal operation</b></p>	
26	Ref No. Sl. No. 156 of Annex 8	Micro Processor Training kit		8
27	Ref No. Sl. No. 160 of Annex 8	Professional swing arm magnifying lamp for Electronic workshop	With multi purpose G clamp mounting bracket, 22 watt circular fluorescent tube, operating voltage 200V	2

LOT 12 – Automobile Items

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
Sl. No	Annex Ref.	ITEM	Brief Specification	Qty
1	1/7	Cut section model of demonstration chassis working with electricals – Two wheeler Petrol vehicle	The Hero Honda motor cycle will be suitably sectioned to demonstrate the working of its engine, gearbox etc., sectioning of maximum parts an accessories like Cylinder, Cylinder Head, Valve ports, Gear box, housing, Oil sump, carburettor, shock absorbers etc will be carried out to show the internal constructional details such as Piston, Piston rings, Valves, cam, Connecting rod, etc., gearbox, clutch etc. the above model will be suitably painted with Spl Duco painting. Wiring of the motor cycle will be carried out to show the working of the electrical system. The mechanical brake system will be suitable sectioned to demonstrate the working of the same.	1
2	2/7	Cut section model of demonstration chassis working with electricals – MPFI system vehicle	<p>The model is made from full size original used car/van chassis consisting of the four stroke MPFI petrol engine. The cut section model is constructed such that all the following systems can be demonstrated in working conditions.</p> <p><b>ENGINE:</b> Maximum parts and accessories of an engine like of the cylinders, cylinder head, Inlet and Exhaust manifolds, Common rail, CMP sensor, throttle body, ECU, self-starter, Alternator, Water pump, Radiator, etc, are sectioned to show the internal constructional details. This complete sectioned model is coupled with 1/2 HP 220/230V A.C single phase Motor through a Reduction drive unit. By running the motor the complete working details of the individual parts, different mechanisms can be demonstrated as the model is running at a very low speed (about 15 to 20 rpm).</p> <p><b>TRANSMISSION SYSTEM:</b> It consists of a Clutch and gearbox assembly, the casing of which is suitably cut to demonstrate its operation. The Hydraulic circuit from the pedal to the Clutch is active and will help to demonstrate the response of hydraulic systems. The gearbox is coupled to Differential gear box with an axle and the different coupling used for this transmission can be demonstrated. The Differential gear box is also cut so as to clearly to demonstrate its complete operating principle. The gear shifting including the forward and reverse gear operation can be clearly shown. The speed variation and the rotation of the Differential gear box can be seen while gear shifting.</p> <p><b>FUEL SYSTEM:</b> The Fuel tank is cut to expose the mounting of the level sensor and tank module and the position of Fuel section.</p> <p><b>EXHAUST SYSTEM:</b> It consists of Exhaust Manifold and silencer in cut section to explain internal construction.</p> <p><b>LUBRICATION SYSTEM:</b> It consists of the engine Lubrication system along with the Lubrication oil pump.</p> <p><b>SUSPENSION SYSTEM:</b> This will explain both the Hydraulic Suspension systems at the front and the leaf spring Suspension at the Rear. One of the hydraulic arrangements of Suspension mechanism is highlighted (with Shock absorbers) and explained cut sectionally.</p> <p><b>BRAKING SYSTEM:</b> This Hydraulic circuit of the Hydraulic Braking mechanism is operational. The movement of the Brake Shoes on operating the pedals can be seen in the area where the Brake drum is cut (front wheel Brake drum). The Rear brakes cannot be demonstrated hydraulically but it is shown using hand Braking</p>	1

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			<p>system that is by using cables.</p> <p><b>STEERING MECHANISM:</b> This can be seen and included in the Steering wheel, Steering gear and coupling at the wheels.</p> <p><b>ELECTRICAL SYSTEM:</b> The Electrical system gives a complete idea of the electrical system and circuit of a car. It has been provided with Sectionised battery and terminals are provided to connect another working battery to show the working of the individual parts and accessories such as a Sectionised Self starter, Dynamo, Wiper Motor, Cutout, Distributor, Horn relay, etc., and working of head light Brake light, side indicator, Horn, parking lights, spark in spark plugs, etc. <b>Note:</b> The complete wiring related to MPFI system will be retained but the working of MPFI system associated with the electrical system cannot be made working</p>	
3	3/7	Cut section model of 4 cylinder 4 stroke petrol engine working with electricals- Carburetor vehicle	<p>The model is made out of full size original used car chassis consisting of the four stroke petrol engine. The cut section model is constructed such that all following systems can be demonstrated in working conditions.</p> <p><b>ENGINE:</b> Maximum parts and accessories of an engine like three of the cylinder, cylinder head, Inlet and Exhaust manifolds, Carburetor, Distributor, self-starter, Alternator, Water pump, Radiator, etc, are sectioned to show the internal constructional details. This complete sectioned models is coupled with 1/4 HP 220/230V A.C single phase Motor through a Reduction drive unit. By running the motor the complete working details of the individual parts, different mechanisms can be demonstrated as the model is running at a very low speed (about 15 to 20 rpm).</p> <p><b>TRANSMISSION SYSTEM:</b> It consists of a Clutch and gearbox assembly, the casing of which is suitably cut to demonstrate its operation. The Hydraulic circuit from the pedal to the Clutch is active and will help to demonstrate the response of hydraulic systems. The gearbox is coupled to Differential gear box with an axle and the different coupling used for this transmission can be demonstrated. The Differential gear box is also cut so as to clearly to demonstrate its complete operating principle. The gear shifting including the forward and reverse gear operation can be clearly shown. The speed variation and the rotation of the Differential gear box can be seen while gear shifting.</p> <p><b>FUEL SYSTEM:</b> The Fuel tank is cut to expose the mounting of the level sensor and the position of Fuel section. The system is complete with mechanical Fuel pump.</p> <p><b>EXHAUST SYSTEM</b> It consists of Exhaust Manifold and silencer in cut section to explain internal construction.</p> <p><b>LUBRICATION SYSTEM:</b> It consists of the engine Lubrication system along with the Lubrication oil pump.</p> <p><b>SUSPENSION SYSTEM:</b> This will explain both the Hydraulic Suspension systems at the front and the leaf spring Suspension at the Rear. One of the hydraulic arrangements of Suspension mechanism is highlighted (with Shock absorbers) and explained cut sectionally.</p> <p><b>BRAKING SYSTEM:</b> This Hydraulic circuit of the Hydraulic Braking mechanism is operational. The movement of the Brake Shoes on operating the pedals can be seen in the area where the Brake drum is cut (front wheel Brake drum). The Rear brakes</p>	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<p>cannot be demonstrated hydraulically but it is shown using hand Braking system that is by using cables.</p> <p><b>STEERING MECHANISM:</b> This can be seen and included in the Steering wheel, Steering gear and coupling at the wheels.</p> <p><b>ELECTRICAL SYSTEM:</b> The Electrical system gives a complete idea of the electrical system and circuit of a car. It has been provided with Sectionised battery and terminals are provided to connect another working battery to show the working of the individual parts and accessories such as a Sectionised Self starter, Dynamo, Wiper Motor, Cutout, Distributor, Horn relay, etc., and working of head light Brake light, side indicator, Horn, parking lights, spark in spark plugs, etc.</p>	
4	4/7	Cut section model of 4 cylinder 4 stroke diesel engine working with electricals-LCV	<p>The model is made out of full size original used LCV chassis of the four stroke four cylinder Pejo Diesel Engine engine. The cut section model is constructed such that all following systems can be demonstrated in working conditions.</p> <p><b>ENGINE:</b> Maximum parts and accessories of an engine like cylinders, cylinder head, Inlet and Exhaust manifolds, FIP, injectors, self-starter, Alternator, Water pump, Radiator, etc, are sectioned to show the internal constructional details. This complete sectioned model is coupled with FHP 220/230V A.C single phase Motor through a Reduction drive unit. By running the motor the complete working details of the individual parts, different mechanisms can be demonstrated as the model is running at a very low speed (about 15 to 20 rpm). By running the engine, the working of individual parts and accessories like Crankshaft, Camshaft, Connecting rod, Pistons, Valves, different pumps, etc can be demonstrated</p> <p><b>TRANSMISSION SYSTEM:</b> It consists of a Clutch and four speed gearbox assembly, the casing of which is suitably cut to demonstrate its operation. The Hydraulic circuit from the pedal to the Clutch is active and will help to demonstrate the response of hydraulic systems. The gearbox is coupled to Differential gear box with an axle and the different coupling used for this transmission can be demonstrated. The Differential gear box is also cut so as to clearly to demonstrate its complete operating principle. The gear shifting including the forward and reverse gear operation can be clearly shown. The speed variation and the rotation of the Differential gear box can be seen while gear shifting. By running the motor connected to the engine assembly the entire system with gear box , transfer case, rear and front axle can be demonstrated in running.</p> <p><b>FUEL SYSTEM:</b> The Fuel tank is cut to expose the mounting of the level sensor and the position of Fuel section. The system is complete with mechanical Fuel pump.</p> <p><b>EXHAUST SYSTEM:</b> It consists of Exhaust Manifold and silencer in cut section to explain internal construction.</p> <p><b>LUBRICATION SYSTEM:</b> It consists of the engine Lubrication system along with the Lubrication oil pump is suitably sectioned.</p> <p><b>SUSPENSION SYSTEM:</b> This will explain both the Hydraulic Suspension systems at the front and the leaf spring Suspension at the Rear. One of the hydraulic arrangements of Suspension mechanism is highlighted (with Shock absorbers) and explained cut section ally.</p> <p><b>BRAKING SYSTEM:</b> This Hydraulic circuit of the Hydraulic Braking mechanism is operational. The movement of the Brake Shoes on operating the brake pedals can be seen in</p>	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<p>the area where the Brake drum is cut . the front and rear brakes will be operational.</p> <p><b>STEERING MECHANISM:</b> This can be seen and included in the Steering wheel, Steering gear box and coupling of the same to the wheels will be shown by rotating the steering wheel the operation of the steering system can be demonstrated.. The entire system will be mounted on the original chassis, and suitable mounting option with caster wheels will be provided for easy movability</p>	
5	5/7	Cut section model of steering gear box with wheel and axle:	<p>This model is made out of full size original parts, suitably sectioned and to demonstrate the working of Steering wheel worms, Steering arm, etc., The Arrangement Of Wheels And Axle Connecting To steering system will be done so the movement of the wheels when rotating the steering wheels can be displayed.</p> <p>The model will be mounted on to a tubular frame, Suitable color imported painting will be carried out along with Miracle coating for the model will be done for extra gloss and shine. The painting will be carried out in such a way that different colors will be use for different components such as identification of sectioned area etc according to the colors code for easy identification of different systems and mechanisms. All the hardware's and gears will be suitably electroplated</p>	1
6	6/7	Cut section model of Airbrake system	The model is made out of Original parts such as Air compressor, Unloader valve, foot valve, Booster, Wheel assembly, air tank, control valve etc Suitably sectioned and mounted on a sturdy iron frame.	1
7	7/7	Demonstration board of electronic ignition system	This open demonstration working unit is made out of original used parts such as switches, Electronic ignition coil, Distributor, four spark plugs and a battery for power source, with necessary wiring connections. By switching on the switch and by giving rotation to the Distributor, Sequential Sparks in the spark plugs can be demonstrated	1
8	8/7	Cut section model of power window with one door	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information such as motor and its gear arrangement etc., and working of the same can be show by connecting it to a battery, the model will be suitably painted and The entire model is mounted on a sturdy iron frame	1
9	9/7	Cut section model of automatic transmission of car	<p>The model is made out of full size original used automatic transmission of a car, the transmission will be suitably sectioned to show the internal details,of gear mechanism of forward and reverse speeds. The automatic shifting of the gears can be explained using this model clearly.</p> <p>The model will be mounted on to a tubular frame, Suitable color imported painting will be carried out along with Miracle coating for the model will be done for extra gloss and shine. The painting will be carried out in such a way that different colors will be use for different components such as identification of sectioned area etc according to the colors code for easy identification of different systems and mechanisms. All the hardware's and gears will be suitably electroplated</p>	1
10	10/7	Cut section models of different automobile parts set	<p>Cut Section Model Of Different Automobile Parts And Accessories Suitably Painted And Mounted On A Wooden Board</p> <ol style="list-style-type: none"> <li>a. Self starter</li> <li>b. Dynamo</li> <li>c. Distributor</li> <li>d. Mechanical Fuel pump</li> <li>e. Electrical Fuel pump</li> <li>f. Carburators Simple Type-2 wheeler</li> <li>g. Carburators Solex Type-4 wheeler</li> <li>h. Carburators Mikuni type</li> </ol>	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<ul style="list-style-type: none"> <li>i. Radiator</li> <li>j. Ignition coil</li> <li>k. Shock absorber</li> <li>l. Brake cylinder and master cylinder</li> <li>m. Speedo meter</li> <li>n. Water pump</li> <li>o. FIP Pneumatic Governor (Four cyl engine)</li> <li>p. FIP RQ governor (Six cylinder Engine)</li> <li>q. FIP RSV governor (Six cylinder Engine)</li> <li>r. FIP Distributor type ( four Cylinder)</li> <li>s. I.C.Injector (4 Types)</li> <li>t. Diesel Filter</li> <li>u. Gear Lubrication pump</li> <li>v. Propeller shaft</li> <li>w. Cone clutch</li> <li>x. Alternator</li> <li>y. Silencer</li> <li>z. Catalytic converter</li>   <li>aa. Fuel Pump diaphragm type</li> <li>bb. Oil Pump External</li> <li>cc. Oil Pump internal</li> <li>dd. Vacuum Pump (Vane type)</li> <li>ee. Vacuum Pump (Rotary type)</li> <li>ff. piston Pump (air Compressor)</li> <li>gg. Turbocharger</li> <li>hh. Fluid flywheel/ Torque converter</li> <li>ii. Alkaline Battery</li> <li>jj. Air Cleaner</li> </ul>	
11	11/7	Cut section model of two wheeler engine and other parts	<p>The model is made out of full size original, <b>used engine, Gear box, clutch</b> etc The Maximum parts and accessories of the engine like cylinder block, Cylinder heads, valve/ports, piston, Connecting rod, inlet and Exhaust manifolds, Fuel system, Lubrication system, Clutch, Gear box etc are sectioned to clearly demonstrate the internal constructional details.</p> <p>The engine is coupled with Gear Box. The gearbox is coupled to the engine through the clutch and gear selection is done by shifting the gear shift control lever. The whole system is mounted on to a sturdy iron frame, and the frame will be provided with caster wheels for easy movement of the entire model. Suitable color imported painting will be carried out along with Miracle coating for the model will be done for extra gloss and shine. The painting will be carried out in such a way that different colors will be use for different components such as Air, oil, petrol, exhaust identification of sectioned area etc according to the colors code for easy identification of different systems and mechanisms. All the hardware's and gears will be suitably electroplated</p>	1
12	12/7	Model mock layout of car electrical system	<p>This demonstration board which will give a complete idea of the electrical system of a car. In this demonstration board the actual wiring with parts and accessories of a car had been arranged, according to the electrical circuit of a car and terminals are provided to connect the battery. By giving connection the working of individual parts such as Self starter, Alternator, Wiper Motor, Horn, Head lights, Tail lamps, Parking lamps, Side indicators, Brake light, Distributor, Sparks of spark plugs, etc., can be demonstrated. The parts sectioned to show the internal constructional details. This is a working demonstration model</p>	1
13	13/7	Two wheeler petrol engine	<p>The petrol engine setup will be prepared by Brand New working condition engine with all the fittings of the engine along with silencer, air filter, fuel tank</p>	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<p>,electrical wiring with ignition switch etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley) .</p> <p>All the fittings such as fuel tank, etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps so as to contain the vibrations.. The engine assembly will be serviced ,painted with a single colour paint</p>	
14	14/7	Four wheeler petrol MPFI engine	<p>The Four stroke petrol engine setup will be prepared by using new multi cylinder car engine of above 1100 cc with all the fittings of the engine along with radiator, silencer, air filter, starter, battery, alternator, indication meters, fuel tank, electrical wiring with ignition switch etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley).</p> <p>All the fittings such as meter, fuel tank, radiator etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps to contain the vibrations. The wiring for the sensors, indication meters etc, will be done so that by cranking the ignition the engine will start working, the indications such as alternator charging, oil pressure, temperature etc., will be displayed on to the necessary indication meter attached. The engine assembly will be serviced, painted with a single colour paint.</p> <p>MPFI engines will be fitted with all necessary sensors, injectors and other MPFI accessories, ECU etc., which will be duly connected by its original wiring harness and will be made to work along with necessary indications.</p> <ol style="list-style-type: none"> <li>1. Colored circuit diagram of the engine management system is printed on to a 6mm organic glass base for training.</li> <li>2. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, and frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>3. Automobile meters are fitted on to the training module along with the printed circuit diagram, to demonstrate engine speed, temperature, fuel pressure, charging light etc.,</li> <li>4. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>5. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> </ol>	1
15	15/7	CRDI Diesel engine	<p>The Four stroke Diesel engine setup of above 1300 cc will be prepared by using good working condition multi cylinder diesel engine with all the fittings of the engine along with air filter, starter, battery, alternator, indication meters, fuel tank, electrical wiring etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley)</p> <p>All the fittings such as meter, fuel tank, radiator etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps to contain the vibrations. The wiring for the sensors, indication meters etc, will be done and painted with a single colour paint.</p> <p>CRDI engines will be fitted with all necessary sensors, injectors and other CRDI accessories, ECU etc., which will be duly connected by its original wiring harness and will be made to work along with necessary indications.</p> <ol style="list-style-type: none"> <li>1. Coloured circuit diagram of the engine management system is printed on to a 6mm organic glass base for training.</li> <li>2. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, and frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>3. Automobile meters are fitted on to the training module along with the</li> </ol>	1



Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			<p>printed circuit diagram, to demonstrate engine speed, temperature, fuel pressure, charging light etc.,</p> <p>4. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</p> <p>5. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</p>	
16	16/7	Tyre changer	<p>External Locking Rim Dimensions: 300mm-510mm (12"- 20")</p> <p>Internal Locking Rim Dimensions: 355mm-585mm (14"- 23")</p> <p>Max Tyre Diameter: 950mm (37")</p> <p>Max Tyre Width: 410mm (16")</p> <p>Bead Breaker Force (10bar) : 2500Kg</p> <p>Working Pressure: 8-10bar(116-145Psi)</p> <p>Power Supply Voltage: 220V (Single Phase)</p>	1
17	17/7	Automatic tyre inflator	<p>1. Power Supply 1PH,220V,50Hz 2. Power 60W 3. Nitrogen Purity 95%-95.5%</p> <p>4. Input Air Pressure 100-145psi,8-10Kg/cm<sup>2</sup> 5. Breaking Pressure &gt;145psi(&gt;10Kg/cm<sup>2</sup>) 6. Output Nitrogen Pressure 58-100psi,4-7Kg/cm<sup>2</sup> 7. Nitrogen Producing Speed 2000-4000L/h 8. Measuring Range 0.4-9.99Kg/cm<sup>2</sup>,5-145psi 9. Working Temp. -20 deg C to 70 deg C</p>	1
18	18/7	Low raise lift	<p>1. Lifting capacity: 3000Kg 2. Max Lifting Height: 1000mm 3. Min Height: 120mm 4. Space Between Platforms: 700mm 5. Total Width: 1760mm 6. Platform Length: 1400mm 7. Single Platform Width: 530mm 8. Lifting Time: 30s 9. Lowering time:25s 10.Power Supply Voltage: 380V, 3ph 11.Motor power: 2.2Kw 12.Noise: &lt;70dB</p>	1
19	19/7	Two post lift	<p>1. Capacity : 3.5 Tons</p> <p>2. Electro Hydraulic Symmetrical Supporting Column</p> <p>3. Passage Width : 2486 mm</p> <p>4. Lifting Height: 1950 mm</p> <p>5. Power Supply :Three Phase or Option of Single phase also</p>	1
20	20/7	Four post lift	<p>Four Post Lift with flat runways</p> <p>Capacity : 3500 Kg</p> <p>Motor Capacity : 2.6 KW</p>	1
21	21/7	Petrol compression tester	<p>1. Quickly and accurately check compression with this Automotive Compression Tester Kit.</p> <p>2. Compatible for use on petrol engines motorcycles and automotive vehicles. Diagnose and repair problems all in the convenience of your own garage.</p> <p>3. Kit comes in a specially designed molded case for easy and safe storage. Included are a variety of thread sizes to suit different nozzle attachments.</p> <p>4. Compact with easy to read gauge makes it an ideal accessory for the mechanically minded.</p> <ul style="list-style-type: none"> <li>• Practical Cylinder Compression Tester for petrol engines</li> </ul>	1
22	22/7	Mechanical wheel alignment	<p>Contents</p> <p>1. Toe-in gauge</p> <p>2. Magnetic camber caster gauge</p> <p>3. Turn table set</p> <p>4. Operating manual</p> <p>5. Vehicle specification sheet</p> <p><b>Range</b> Toe: +/- 10 mm Camber: - 5 deg to + 5 deg Caster: -3 to + 11 degree</p> <p>KPI: - 14 to + 14 degree</p> <p>Parameters measured</p> <p>1. Toe In / Toe Out</p> <p>2. Camber</p> <p>3. Caster</p>	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			4. KPI 5. Toe Out on Turns 6. Lock angle	
23	23/7	Diesel injector cleaning machine	For testing Piezo-Electric Injectors (SIEMENS) • It can test 1 injectors at a time • Simulates 1 injectors at a time • Measure delivery quantity at different pulse width • Simulates with your old test bench • Supported common rail injectors Piezo-Electric Injectors • Digital pressure regulator for adjusting the rail pressure • Mounted on a suitable table	1
24	24/7	Hydraulic bearing puller	6 ton hydraulic 3 arms combination puller with maximum spread of 300mm, Suitable for pulling hubs, flanges, gears, bearings and more	1
25	25/7	Air compressor pressure gauge	Recommend Regulating Pressure Range: 30-120PSI with regulator	1
26	26/7	Carburetor repair tool kit	High quality: Made of long lasting stainless steel, ergonomic grip and metal pole. Convenient & easy to use with every carburetor adjustment tool's handle stamped with the tip shape. 8 pieces carburetor adjustment screwdrivers including: Pac Man/ Small Head Pac Man/ Single D/ Small Head Single D/ Double D/ Hexagon/ 7 Teeth Splined/ 21 teeth splined screwdriver with carry case and cleaning tools	1
27	27/7	Distributor tester	1. Working model of the 3 cylinder ignition system of car and student can able to study of the ignition system 2. Motorized distributor with RPM of 1440 rpm 3. Creation of vacuum on the distributor using vacuum motor 4. Students able to see the difference between centrifugal advance and vacuum advance 5. Faults simulation by using toggle switches and terminal points are provided to check the output 6. Accessories: Timing light, Tach dwell tester, multimeter	1
28	28/7	Cylinder gauge, bore dial gauge with std. accessories	20-150mm (set of 3) with standard accessories	1 set
29	29/7	Tachometer	Digital tachometer, Non- contact, Counting type 60 to 99,999 rpm	1
30	30/7	Connecting rod alignment fixture	Connecting rod alignment fixture capable of checking straightness and parallelism with telescopic shaft for mounting collets.	1
31	31/7	Puller set universal bearing and bushes	Universal bearing and bushes puller set with jaw puller, separator, center adaptor and all accessories in a blow mould box.	1 set
32	32/7	Piston ring compressor	Piston ring compressor 75 to 110 mm	1
33	33/7	Valve key inserter	Pen type valve key inserter	1
34	34/7	Electrical Test Bench	2 HP Capacity, 3 phase 380 V, 50Hz,1440 rpm Motor Meters: Digital Voltage, Amps Alternator Loading Upto 50amps/12V - 30amps/24V Starter Light Run Upto 100amps/12V-100Amps/24V Small Pulley For Alternator Checking 110v Series Lamp Test Facility Heavy Duty Rugged Mounting Block Heavy Duty Output Cables Three Phase Main Switch All Tripping MCBs Available PCB/Battery Excitation Available	1
35	36/7	Injector cleaner & Tester	1. Suitable for cleaning 4 Injectors simultaneously 2. Ultra Sonic Bath tub as standard supply 3. Uniformity test, Spray test, Leakage test and Auto test	1
36	37/7	Battery charger	12v / 24v 10 amps battery charger with Reverse Polarity Protection 3-stage charging, adjustable voltage and current options & amp charge meter	1
37	38/7	Battery tester	12 v Battery tester – digital upto 100 amps	1
38	39/7	Garage Jack, Hydraulic	Hydraulic trolley garage jack Hi-lift type- 2.5ton capacity for automobile use	1

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39	40/7	Hydraulic Bottle Jack	Hydraulic bottle jack 2 ton capacity	1
40	41/7	Hyd Garage press- Manually operated	Capacity 50 T	1
41	42/7	Torque wrench	Torque wrench -Ratchet type, ½" square drive, 5-35 Nm, 14-68 Nm & 50-220 Nm	1
42	43/7	Cylinder Liner extractor	4 Leg type- stiff base Cylinder liner extractor	1 set
43	48/7	Steel Creeper	1030 x 415 x 160 mm	
44	98/7	Double open ended ignition spanner set	Open Double end ignition spanner 2 to 9mm, set of 5	5
45	100/7	Spanner Ring off-set	Ring Double end ignition spanner 2 to 9mm, set of 5	5
46	101/7	Spanner of spark plug	Spark plug spanner 14 mm	10
47	102/7	Magneto spanner set of 8 spanners	Magneto spanner set of 8 spanners in a bunch	10
48	109/7	Tray cleaning	45 x 30 cm	20
49	111/7	Lifter, Valve Spring	C-Type valve spring compressor and lifter	5
50	112/7	Extractor, Stud 'Ezy out' type	Stud Extractor, Ezy out type, set of 5	5
51	116/7	Distributor for petrol	Brand new Distributor mounted on navopan base	1
52	117/7	Carburetor (two different types)	Brand new Carburetor mounted on navopan base.	1
53	118/7	Water Pump and Oil Pump – 2 each	Brand new Water Pump mounted on navopan base	1 set
54	119/7	Tachometer Digital	Digital tachometer, Non- contact, Counting type 60 to 99,999 rpm	10
55	120/7	Jack Hydraulic (Trolley type)	Hydraulic floor crane complete unit, steel tubular structure with heavy duty hydraulic cylinder to lift weight, telescopic arm fitted with chain and hook system, powder coated paint finish. The unit shall be mounted on nylon wheels and swivel arrangement at the back for better maneuverability and as per the following technical specifications and along with accessories. A. TECHNICAL SPECIFICATIONS: Lifting Capacity : 2500 Kgs Lifting height : 2400 mm Length of Base : 1555 mm Breadth between Telescopic Length : 950 mm	3
56	121/7	Tester spark plug	NEON Type	5
57	122/7	Lifting jack, screw type	Screw type Lifting Jack 5 ton capacity	3
58	123/7	Coil spring compressor for suspension spring	Coil spring compressor for suspension spring- pair	1
59	124/7	Hot patch clamp unit	Hot patch clamp unit- 230v AC, with heat adjustable knob	2
60	125/7	High rate discharge tester	12v High rate battery discharge tester with three different loads 10, 20, 30A •10Sec. Timer for Auto cutoff Load •Battery Status Indicator i.e. Good, Weak, Bad •Heavy Duty Battery Clips	1
61	127/7	Pneumatic tools	Set of Pneumatic tools , air ratchet wrench, air impact wrench, air pneumatic rivet gun with FRI unit, coil type pips & all accessorie.	1 set
62	128/7	Automobile spray gun	½ ltr Automobile spray gun with pipe adapater	4
63	129/7	Impact Screw Driver	• Carbon Steel Chrome Plated, Size: 4-36 mm X 5/16 Inches Power Bits, Phillips No. 2 &3, Slotted 8 & 10 mm, 1- 1/2 Inches Drive Impact Driver, 1- 1/2 Inches Drive 5/16 Inches Bit Holder, 1- Blow Case	2 set
64	134/7	Timing light	Xenon inductive automotive timing light with heat resistant battery clips	5
65	135/7	Battery load tester	12 v Battery tester with automatic timer and digital display, battery charge indicator and to check battery upto 300 amps	1
66	136/7	Continuity meter	Continuity circuit Tester for 6V - 24V DC Systems Long Probe Continuity Tester, Used to Detect Power, Ground and find Shorts and Breaks in Wires	1

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar				
			Handle Brightly Illuminates if Circuit is Good Check automotive headlights, taillights, turn signal circuits, faulty sockets, connections, fuses, broken wires and more	
67	137/7	Fuel injection pump (Diesel) inline	Brand new Fuel Injection Pump mounted on navopan base	1
68	138/7	Fuel injection pump (Diesel) rotary	Brand new Fuel Injection Pump mounted on navopan base	1
69	139/7	Set of governors for diesel pump	Brand new Governors mounted on navopan base	1
70	140/7	Petrol nozzle	Brand new Petrol Nozzle mounted on navopan base.	1 set

## LOT 13 - Automobile Advanced Equipment

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Ref No. Sl. No. 1 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Fully operational Multi Point Injection Petrol Engine, Complete with Fuel, Ignition, Cooling, Exhaust Systems, Starting and Charging System.</b>	1 No.
1	<b>Major specifications</b>	
	<p>The Four stroke petrol engine setup of Japanese Technology will be prepared by using new multi cylinder car engine of above 1100 cc with all the fittings of the engine along with radiator, silencer, air filter, starter, battery, alternator, indication meters, fuel tank, electrical wiring with ignition switch etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley).</p> <p>All the fittings such as meter, fuel tank, radiator etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps so as to contain the vibrations. The wiring for the sensors, indication meters etc, will be done so that by cranking the ignition the engine will start working, the indications such as alternator charging, oil pressure, temperature etc., will be displayed on to the necessary indication meter attached. The engine assembly will be serviced, painted with a single colour paint.</p> <p>MPPFI engines will be fitted with all necessary sensors, injectors and other MPPFI accessories, ECU etc., which will be duly connected by its original wiring harness and will be made to work along with necessary indications.</p> <ol style="list-style-type: none"> <li>1. Colored circuit diagram of the engine management system is printed on to a 6mm organic glass base for training.</li> <li>2. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, and frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>3. Automobile meters are fitted on to the training module along with the printed circuit diagram, to demonstrate engine speed, temperature, fuel pressure, charging light etc.,</li> <li>4. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>5. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in pen drive	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 2 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Fully Operational Single Point Injection Petrol Engine, Complete with Fuel, Ignition, Cooling and Exhaust Systems.</b>	1 No.
1	<b>Major specifications</b>	
	<p>The Four stroke petrol engine setup of above 1400 cc will be prepared by using good working condition multi cylinder car engine with all the fittings of the engine along with radiator, silencer, air filter, starter, battery, alternator, indication meters, fuel tank, electrical wiring with ignition switch etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley).</p> <p>All the fittings such as meter, fuel tank, radiator etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps so as to contain the vibrations. The wiring for the sensors, indication meters etc, will be done so that by cranking the ignition the engine will start working, the indications such as alternator charging, oil pressure, temperature etc., will be displayed on to the necessary indication meter attached. The engine assembly will be serviced, painted with single colour paint.</p> <p>Engine will be fitted with all necessary sensors, injectors and other accessories, ECU etc., which will be duly connected by its original wiring harness and will be made to work along with necessary indications.</p>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
7	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Ref No. Sl. No. 3 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Fully operational Diesel Engine, Complete with fuel, Cooling, Turbo and Exhaust Systems, Starting and Charging System – (Volkswagen 1.9 Turbo Diesel Engine Complete with BOSCH Electronic Diesel Control System, fitted with manufactures Diagnostic socket 16 Pin).</b>	1 No.
1	<b>Major specifications</b>	
	<p>The Four stroke Diesel engine setup will be prepared by using good working condition multi cylinder diesel engine with all the fittings of the engine along with air filter, starter, battery, alternator, indication meters, fuel tank ,electrical wiring etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley) .</p> <p>All the fittings such as meter, fuel tank, radiator etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps so as to contain the vibrations. The wiring for the sensors, indication meters etc, will be done and painted with a single colour paint.</p> <p>CRDI engines will be fitted with all necessary sensors, injectors and other CRDI accessories, ECU etc., which will be duly connected by its original wiring harness and will be made to work along with necessary indications.</p> <ol style="list-style-type: none"> <li>1. Colored circuit diagram of the engine management system is printed on to a 6mm organic glass base for training.</li> <li>2. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, and frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>3. Automobile meters are fitted on to the training module along with the printed circuit diagram, to demonstrate engine speed, temperature, fuel pressure, charging light etc.,</li> <li>4. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>5. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 4 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Fully operational Diesel Engine, complete with Fuel, Cooling, Turbo and Exhaust System, Starting and Charging system – (Common Rail Turbo Diesel Engine, Complete Bosch or Siemens Electronic Diesel Control System fitted with manufactures Diagnostic socket 16 Pin).</b>	1 No.
1	<b>Major specifications</b>	
	<p>The Four stroke Diesel engine setup of above 1300 cc will be prepared by using good working condition multi cylinder diesel engine with all the fittings of the engine along with air filter, starter, battery, alternator, indication meters, fuel tank ,electrical wiring etc., all mounted on to a sturdy iron frame with caster wheels (mobile trolley) .</p> <p>All the fittings such as meter, fuel tank, radiator etc., along with the engine will be arrange on to the paint finished trolley with its original fittings such as rubber dampers and clamps so as to contain the vibrations. The wiring for the sensors, indication meters etc, will be done and painted with a single colour paint.</p> <p>CRDI engines will be fitted with all necessary sensors, injectors and other CRDI accessories, ECU etc., which will be duly connected by its original wiring harness and will be made to work along with necessary indications.</p> <ol style="list-style-type: none"> <li>Colored circuit diagram of the engine management system is printed on to a 6mm organic glass base for training.</li> <li>Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, and frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>Automobile meters are fitted on to the training module along with the printed circuit diagram, to demonstrate engine speed, temperature, fuel pressure, charging light etc.,</li> <li>The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 5 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Sets of all sensors and actuators used for modern Engines</b> suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)	2 Nos.
1	<b>Major specifications</b>	
	<p>The Instruction board adopts the real components of electronic fuel injection system to illustrate engine fuel system structure and working principle. The components are rigged onto colour circuit diagram. And made functional.</p> <p>Features</p> <ol style="list-style-type: none"> <li>1. Real and operatable engine fuel injection system is assembled onto a colour printed board to illustrating the structure and working process.</li> <li>2. Colored circuit diagram on the training Module printed on to 6mm organic glass base. Where in the students can compare the diagram and actual diagram.</li> <li>3. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>4. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>5. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> <li>6. Set the line break, grounding short circuit, improper contact or open circuit faults can be induced, user can adjust the number and type of faults.</li> <li>7. Good working condition Parts will be provided with fuel tank. The instruction board has to be connected to 230V AC socket which changes to 12V DC internally so that the board works without battery.</li> <li>8. The training module is fabricated using steel pipe frame with spray painted for good looks and the entire setup is provided with caster wheels with brakes for easy movement of the same.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 6 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Simulation of Central Door Locking with Alarm system and power windows including real working on car door</b> suitable for Single phase, 230 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	<p>The Instruction board adopts the real components of Central door Locking and alarm system to illustrate Locking and safety system structure and working principle. The components are rigged onto colour circuit diagram. And made functional.</p> <p>Features</p> <ol style="list-style-type: none"> <li>1. Real and operatable Central door Locking and alarm system is assembled onto a colour printed board to illustrating the structure and working process .A real driver side sectioned door will be assembled on to the system to show the operation and demonstrate the internal construction details showing the minute information such as motor and its gear arrangement etc., and working of the power window system.</li> <li>2. Colored circuit diagram on the training Module printed on to 6mm organic glass base. Where in the students can compare the diagram and actual diagram.</li> <li>3. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>4. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> <li>5. Set the line break, grounding short circuit, improper contact or open circuit faults can be induced, user can adjust the number and type of faults.</li> <li>6. Good working condition Parts will be provided with fuel tank. The instruction board has to be connected to 230V AC socket which changes to 12V DC internally, so that the board works without battery.</li> <li>7. The training module is fabricated using steel pipe frame with spray painted for good looks and the entire setup is provided with caster wheels with brakes for easy movement of the same.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 7 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Complete Set of Alarm System</b> suitable for Single phase, 230 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	The complete set of Central door Locking / alarm system will be suitably arranged on to a board for complete idea of the Alarm system of a four wheeler. In this board the actual wiring with parts, naming and we will be arranged according to the Vehicle. Where in the identification of the components and its variable parts can be done.	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 8 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Complete set of ABS Components</b> suitable for 3 phase, 400 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	<p>The device is designed on the ABS system, where in the principle of operation and working of the same can be demonstrated. A parts and accessories are arranged on to a Colour printed board. And the system is made functional.</p> <p>Features</p> <ol style="list-style-type: none"> <li>1. Real and operatable ABS brake system is assembled onto a colour printed board to illustrating the structure and working process.</li> <li>2. The front and rear Disc Brake with calipers are coupled to two different three phase motor with electric drives to rotate the front disc and rear disc separately. A brake Pedal along with vacuum booster is connected to the Front caliper system and rear drum brake system, a vacuum pump will be connected to the booster to demonstrate the effect of vacuum in the pedal operation.</li> <li>3. The Device is connected with Pressure meters to demonstrate the different pressure at different locations in the brake system.</li> <li>4. Colored circuit diagram on the training Module printed on to 6mm organic glass base. Where in the students can compare the diagram and actual diagram.</li> <li>5. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>6. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>7. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> <li>8. Set the line break, grounding short circuit, improper contact or open circuit faults can be induced, user can adjust the number and type of faults.</li> <li>9. Good working condition Parts will be provided with fuel tank. The instruction board has to be connected to 230V AC socket which changes to 12V DC internally, so that the board works without battery.</li> <li>10. The training module is fabricated using steel pipe frame with spray painted for good looks and the entire setup is provided with caster wheels with brakes for easy movement of the same.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
3	Display of equipment specification to be provided.	
4	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
5	Colour	Standard Colour
6	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
7	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Ref No. Sl. No. 9 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Complete set of Airbag Components with suitable air compressor</b> suitable for Single phase, 230 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	<p>The Instruction board adopts the real components of Air bag system to illustrate Air bag safety system structure and working principle. The components are rigged onto colour circuit diagram and made functional.</p> <p>Features:</p> <ol style="list-style-type: none"> <li>1. Real and operatable Air bag system is assembled onto a colour printed board to illustrating the structure and working process.</li> <li>2. The Vehicle Crash is simulated by pushing and hitting the crash sensor along the rail provided to demonstrate the quick air bag inflation.</li> <li>3. Colored circuit diagram on the training Module printed on to 6mm organic glass base. Where in the students can compare the diagram and actual diagram.</li> <li>4. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>5. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> <li>6. Set the line break, grounding short circuit, improper contact or open circuit faults can be induced, user can adjust the number and type of faults.</li> <li>7. Good working condition Parts will be provided with fuel tank. The instruction board has to be connected to 230V AC socket which changes to 12V DC internally, so that the board works without battery.</li> <li>8. The training module is fabricated using steel pipe frame with spray painted for good looks and the entire setup is provided with caster wheels with brakes for easy movement of the same.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
	Display of equipment specification to be provided.	
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
4	Colour	Standard Colour
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 10 Advanced of Annex 7			
Sl. No.	Brief Specification		Qty.
	<b>Air Compressor</b> suitable for Single phase, 230 V, 50Hz AC supply.		1 No.
1	<b>Major specifications</b>		
	Trolley type portable reciprocating type air compressor single cylinder with 45 liters capacity Air tank, along with accessories & with working pressure 6.5 kg/sq cm.		
2	Operating manuals containing troubleshooting		3 sets
3	Colour	Standard Colour	
4	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided	1 set
5	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. Sl. No. 11 Advanced of Annex 7			
Sl. No.	Item	Brief Specification	Qty.
	<b>Hand held Diagnostic Tester</b>		1 No.
1	<b>Major specifications</b>		
	<ol style="list-style-type: none"> <li>1. Complete Worldwide Coverage</li> <li>2. Up gradation through Internet</li> <li>3. Big Capacity 128MB with software for Japanese, Korean, Indian Vehicles</li> <li>4. DTC, Live Reading, Actuation tests and Key coding</li> <li>5. Connector locations, Wiring Diagrams and help menus</li> <li>6. Real-time PC interface through USB port</li> </ol>		
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.		
	Display of equipment specification to be provided.		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 12 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Wireless Diagnostic tester include Laptop</b> suitable for Single phase, 230 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	<p><b>Hardware details</b></p> <ol style="list-style-type: none"> <li>1. PC based scan module</li> <li>2. LED Indicator</li> <li>3. 32 bit RISC Micro Controller Operation</li> <li>4. – 32 VDC Input range</li> <li>5. Designed for low power consumption (Max 150mA)</li> <li>6. Bluetooth 2.1 +EDR Wireless communication</li> </ol> <p><b>Features</b></p> <ol style="list-style-type: none"> <li>1. Remote Control</li> <li>2. Feedback system</li> <li>3. Self testing</li> <li>4. Monitoring</li> <li>5. All Protocol Included</li> <li>6. Key coding available</li> <li>7. OEM Level Software</li> <li>8. Intuitive Simple User Interface</li> <li>9. Wireless Communication</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
	Display of equipment specification to be provided.	
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
4	Colour	Standard Colour
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 13 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Fully operational ESP Trainer. Complete with braking circuit and manufactured using original vehicle components. Simulation of wheel lock to active the ABS. pressure gauges indicate individual front and rear line pressures at each wheel. Brake pedal kick back can be observed. Diagnostic socket fitted for the connection of fault code readers</b> suitable for Single phase, 230 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	<p>The ESP Trainer Module is designed on the ESP based ABS system, where in the principle of operation and working of the same can be demonstrated. A parts and accessories are arranged on to a Colour printed board. And the system is made functional.</p> <p>Features</p> <ol style="list-style-type: none"> <li>1. Real and operatable ABS brake system is assembled onto a colour printed board to illustrating the structure and working process.</li> <li>2. The front and rear Disc Brake with calipers are coupled to two different three phase motor with electric drives to rotate the front disc and rear disc separately. A brake Pedal along with vacuum booster is connected to the Front caliper system and rear drum brake system, a vacuum pump will be connected to the booster to demonstrate the effect of vacuum in the pedal operation.</li> <li>3. The Device is connected with Pressure meters to demonstrate the different pressure at different locations in the brake system.</li> <li>4. Coloured circuit diagram on the training Module printed on to 6mm organic glass base. Where in the students can compare the diagram and actual diagram.</li> <li>5. Detection terminals for operator to detect various sensors, actuators, electrical signals for engine control unit, such as resistive, voltage, current, frequency and wave form signals are provided on to the printed circuit diagram.</li> <li>6. The training module is fitted with diagnostic socket (DLC) for universal automobile decoder (Scan tool) to read fault codes, clear fault codes and read data stream.</li> <li>7. Fault setting switch bank will be provided to induce faults in the training module to demonstrate the fault and to diagnose faults.</li> <li>8. Set the line break, grounding short circuit, improper contact or open circuit faults can be induced, user can adjust the number and type of faults.</li> <li>9. Good working condition Parts will be provided with fuel tank. The instruction board has to be connected to 230V AC socket which changes to 12V DC internally, so that the board works without battery.</li> <li>10. The training module is fabricated using steel pipe frame with spray painted for good looks and the entire setup is provided with caster wheels with brakes for easy movement of the same.</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
	Display of equipment specification to be provided.	
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
4	Colour	Standard Colour
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 14 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Fully operated automotive automatic Air Condition System Simulator</b> suitable for Single phase, 230 V, 50Hz AC supply.	1 No.
1	<b>Major specifications</b>	
	This model is made out of original New parts, will be suitably arranged on to a metal frame with navopan/laminated board to demonstrate details of Piping connection, Wiring circuit with all the accessories such as Cooling Coil, compressor, evaporator, necessary hoses, condenser etc., the model will be made to work using a FHP motor so that by operating the AC panel the operation and cooling effect of the same can be demonstrated, the Model will contain a car Battery for the operation of the blower and Magnetic clutch the entire system will be suitably painted.	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
	Display of equipment specification to be provided.	
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
4	Colour	Standard Colour
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 15 Advanced of Annex 7				
Sl. No	Brief Specification		Qty.	
	<b>Automotive special Multi Meter</b>		1 No.	
	<b>Major specifications</b>			
1	CV	Maximum voltage		1000V
		Accuracy		±(0.1%+1)
		Best resolution		0.01 mV
2	ACV	Maximum voltage		1000V
		Accuracy		±(0.5%+2)
		AC bandwidth		5kHz
		Best resolution		0.01 mV
3	DC current	Maximum amps		10A
		Amps accuracy		±(0.4%+2)
		Best resolution		0.001 mA
4	AC current	Maximum amps		10A
		Amps accuracy		±(1.2%+2)
		Best resolution		0.001 mA
5	Resistance	Maximum resistance	50 MΩ	
		Accuracy	±(0.4%+1)	
		Best resolution	0.1Ω	
6	Capacitance	Maximum capacitance	9,999 μF	
		Accuracy	±(1%+2)	
		Best resolution	0.01 nF	
7	Frequency	Maximum frequency	200 KHz	
		Accuracy	±(0.005%+1)	
		Best resolution	0.01 Hz	
8	Duty cycle	Maximum duty cycle	99.9 %	
		Accuracy	within 2% per KHz +0.1%	
		Best resolution	0.1 %	
9	Temperature measurement	-200.0°C - 1090°C -328.0°F - 1994.0°F,	1.0% excluding probe	
10	80 BK temperature probe	-40 °C - 260 °C -40 °C - 260 °C	or 2% whichever is greater	
11	Conductance	Maximum conductance	60.00 nS	
		Accuracy	±(1.0%+10)	
		Maximum resolution	0.01 nS	
12	Operating range	5.2 cm x 9.8cm x 20.1 cm (2.06" x 3.86" x 7.93") 624 g (22 oz.)		
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.			

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar</b>			
Ref No. Sl. No. 15 Advanced of Annex 7			
	Display of equipment specification to be provided.		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 16 Advanced of Annex 7				
Sl.	Brief Specification			Qty.
	<b>3D wheel Alignment</b> unit suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)			1 No.
1	<b>Major specifications</b>			
	<b>Technical Features</b>	<b>Accuracy</b>	<b>Measuring Range</b>	<b>Total Measuring Range</b>
	<b>Front Axle</b>			
	Total Toe	+/- 2'	+/- 2 Deg	+/- 20 Deg
	Partial Toe	+/- 1'	+/- 1 Deg	+/- 10 deg
	Set-back	+/- 2'	+/- 2 Deg	+/- 5 Deg
	Camber	+/- 5'	+/- 3 Deg	+/- 10 Deg
	Caster	+/- 7'	+/- 10 Deg	+/- 18 Deg
	King Pin	+/- 7'	+/- 10 Deg	+/- 18 Deg
	<b>Rear Axle</b>			
	Total Toe	+/- 2'	+/-2 Deg	+/- 20 Deg
	Partial Toe	+/- 1'	+/- 1 Deg	+/- 10 Deg
	Camber	+/- 5'	+/- 3 Deg	+/- 10 Deg
	Thrust Angle	+/- 2'	+/- 2 Deg	+/- 5 Deg
	Set - Back	+/- 2'	+/- 2 Deg	+/- 5 Deg
	<b>Features</b>			
	<ol style="list-style-type: none"> <li>1. Battery operated for fixed or mobile installation</li> <li>2. Exclusive real 3D Targets</li> <li>3. Bluetooth transmission between the front measuring heads and control unit</li> <li>4. Software operating under windows with 90,000 vehicle data and up gradation through Online</li> <li>5. Data bank of vehicle stored with vehicle registration number &amp; search either through name or number</li> <li>6. Quick run-out</li> <li>7. Summary and comparison of diagnosis / repair values on a single screen</li> <li>8. Less bay area usage: Without pillar or T bar, without need of frontal vacant area between the sensor and target.</li> <li>9. Easily Portable between bays</li> <li>10. Easy databank up gradation and customer data backup</li> </ol>			
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.			
	Display of equipment specification to be provided.			
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE			3 sets
4	Colour	Standard Colour		
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 17 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>4 Gas Analyzer</b> with suitable PC - suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)	1 No.
1	<b>Major specifications</b>	
	<ol style="list-style-type: none"> <li>1. Measures CO,HC,CO<sub>2</sub>,O<sub>2</sub></li> <li>2. Engine RPM for Sealed engines</li> <li>3. Oil Temperature measurement</li> <li>4. Air Fuel Ratio and Lambda Measurements</li> <li>5. Option to add Nox measurement facility</li> <li>6. OMIL Class1 category</li> <li>7. RS 232 Port</li> <li>8. Mounted on a suitable table</li> </ol>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated. Display of equipment specification to be provided.	
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
4	Colour	Standard Colour
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 18 Advanced of Annex 7		
Sl. No.	Brief Specification	Qty.
	<b>Common Rail Injector Tester</b> suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)	1 No.
1	<b>Major specifications</b>	
	<ul style="list-style-type: none"> <li>• For testing Piezo-Electric Injectors (SIEMENS)</li> <li>• It can test 1 injectors at a time</li> <li>• Simulates 1 injectors at a time</li> <li>• Measure delivery quantity at different pulse width</li> <li>• Simulates with your old test bench</li> <li>• Supported common rail injectors Piezo-Electric Injectors</li> <li>• Digital pressure regulator for adjusting the rail pressure</li> <li>• Mounted on a suitable table</li> </ul>	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.	
	Display of equipment specification to be provided.	
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets
4	Colour	Standard Colour
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided
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. Sl. No. 19 Advanced of Annex 7																																			
Sl. No.	Brief Specification	Qty.																																	
	<b>Lift for wheel Alignment</b> suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)	1 No.																																	
1	<b>Major specifications</b>																																		
	<p>Low Profile Electro Hydraulic Scissor lift</p> <p>All pivot points made with self lubricating bushings for long life.</p> <p>CE approved lift with low voltage controls.</p> <p>No cross rails or torsion bars between lifting platforms (for max. accessibility in the working area). Every time the platforms reach the floor, the lift must be perfectly levelled using the special valve</p> <p>Mechanical locking device with automatic engagement and pneumatic release, ensuring maximum safety when lift is in standing position.</p> <p>Hydraulic levelling system by means of a synchronization device assures constantly level lifting Platforms regardless of weight distribution</p> <p>Minimal platforms height 155 mm: easy access including cars with low spoilers</p> <p>Lifts for wheel alignment with front recesses for turntables and rear slip plates</p> <p>Built in wheel free lift with adjustable extensions to optimize vehicle loading</p> <p><b>TECHNICAL SPECIFICATION</b></p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Specification</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Capacity of main lift (kg)</td> <td>3500 Kg</td> </tr> <tr> <td>2</td> <td>Lift table capacity (kg)</td> <td>3500 Kg</td> </tr> <tr> <td>3</td> <td>Motor (kW)</td> <td>2.6 kW</td> </tr> <tr> <td>4</td> <td>Main lift elevation time (")(with maximum charge)</td> <td>34</td> </tr> <tr> <td>5</td> <td>Lift table elevation time (")(with maximum charge)</td> <td>5</td> </tr> <tr> <td>6</td> <td>Main lift drop time (")(with maximum charge)</td> <td>31</td> </tr> <tr> <td>7</td> <td>Lift table drop time (")(with maximum charge)</td> <td>10</td> </tr> <tr> <td>8</td> <td>Noise level dB(A)</td> <td>70</td> </tr> <tr> <td>9</td> <td>Air pressure (bar)</td> <td>Min 6 – Max 10 Bar</td> </tr> <tr> <td>10</td> <td>Hydraulic control box max oil pressure (bar)</td> <td>270 bar</td> </tr> </tbody> </table>	S.No	Specification	Values	1	Capacity of main lift (kg)	3500 Kg	2	Lift table capacity (kg)	3500 Kg	3	Motor (kW)	2.6 kW	4	Main lift elevation time (")(with maximum charge)	34	5	Lift table elevation time (")(with maximum charge)	5	6	Main lift drop time (")(with maximum charge)	31	7	Lift table drop time (")(with maximum charge)	10	8	Noise level dB(A)	70	9	Air pressure (bar)	Min 6 – Max 10 Bar	10	Hydraulic control box max oil pressure (bar)	270 bar	
S.No	Specification	Values																																	
1	Capacity of main lift (kg)	3500 Kg																																	
2	Lift table capacity (kg)	3500 Kg																																	
3	Motor (kW)	2.6 kW																																	
4	Main lift elevation time (")(with maximum charge)	34																																	
5	Lift table elevation time (")(with maximum charge)	5																																	
6	Main lift drop time (")(with maximum charge)	31																																	
7	Lift table drop time (")(with maximum charge)	10																																	
8	Noise level dB(A)	70																																	
9	Air pressure (bar)	Min 6 – Max 10 Bar																																	
10	Hydraulic control box max oil pressure (bar)	270 bar																																	
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.																																		
	Display of equipment specification to be provided.																																		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE	3 sets																																	
4	Colour	Standard Colour																																	
5	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided																																	
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. Sl. No. 20 Advanced of Annex 7			
Sl. No.	Brief Specification		Qty.
	<b>Fully operated steering system with all components</b> suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)		1 No.
1	<b>Major specifications</b>		
	The Working setup of Hydraulic power steering of German Technology is made out of original hydraulic steering system completely rigged on to a metal frame, where in a complete hydraulic circuitry will be connected with the hydraulic pump motorized to pressurize the hydraulic oil inside the system. The steering system will be with complete suspension system, tyres and wheels. A rotary platform will be provided under the tyres to demonstrate the vehicle load. So that the Steering with and without the hydraulic power can be demonstrated.		
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.		
	Display of equipment specification to be provided.		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 21 Advanced of Annex 7			
Sl. No.	Item	Brief Specification	Qty.
	<b>Fully Automatic 'AIRCO' service center with integrated-Nitrogen Pressure testing</b> suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)		1 No.
1	<b>Major specifications</b>		
	<ol style="list-style-type: none"> <li>1. Power Supply 1PH,230V,50Hz</li> <li>2. Power 60W</li> <li>3. Nitrogen Purity 95%-95.5%</li> <li>4. Input Air Pressure 100-145psi,8-10Kg/cm<sup>2</sup></li> <li>5. Breaking Pressure &gt;145psi(&gt;10Kg/cm<sup>2</sup>)</li> <li>6. Output Nitrogen Pressure 58-100psi,4-7Kg/cm<sup>2</sup></li> <li>7. Nitrogen Producing Speed 2000-4000L/h</li> <li>8. Measuring Range 0.4-9.99Kg/cm<sup>2</sup>,5-145psi</li> <li>9. Working Temp. -20 deg C to 70 deg C</li> </ol>		
2	Total system shall be built in such a way that total processes & Components of the entire system can be demonstrated.		
	Display of equipment specification to be provided.		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 22 Advanced of Annex 7			
Sl. No.	Brief Specification		Qty.
	<b>Sensors Simulator</b>		1 No.
1	<b>Major specifications</b>		
	<p>This experiment box is designed based on the original auto sensors and actuators, fully display the structure and working process of auto sensor and actuators. The experiment box is equipped with detection terminal for the sensor and actuators, the student can test the signal through the terminal. Digital voltmeter was installed on the panel of experiment box to display sensor working volt. The circuit is engraved in the white PCV board of experimental box. The experiment box uses ordinary AC 230V power, which will transformed into 12V direct current by the inner rectifier. It requires no battery. The 12V direct current supply has anti-short-circuit function.</p> <p>To be placed on a suitable table.</p>		
2	<p>Total system shall be built in such a way that total processes &amp; Components of the entire system can be demonstrated.</p> <p>Display of equipment specification to be provided.</p>		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 23 Advanced of Annex 7			
Sl. No.	Brief Specification		Qty.
	<b>EPROM Reader</b> suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)		1 No.
1	<b>Major specifications</b>		
	<p>Mounted on a suitable Table</p> <p>Requirement:</p> <ul style="list-style-type: none"> <li>USB 2.0 Port</li> <li>Read &amp; Write EN25T80</li> <li>Automatically recognize the chip</li> <li>Supports PC software &amp; programmer upgrade</li> </ul>		
2	<p>Total system shall be built in such a way that total processes &amp; Components of the entire system can be demonstrated.</p> <p>Display of equipment specification to be provided.</p>		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in PENDRIVE		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 24 Advanced of Annex 7			
Sl. No.	Item	Brief Specification	Qty.
	<b>Immobilizer Key Programmer</b>		1 No.
1	<b>Major specifications</b>		
	<p>New Auto transponder chip key copy machine with 3.6-inch TFT LCD display, touch screen operation</p> <p>Features:</p> <p>Function 1:</p> <p>1) Read out the chip code for 11 12 13 33 T5 40 41 42 44 45 46 48 4C 4D 8C and 8E chips. With the detail format for ID 48 and 4D Chips.</p> <p>2) New identify functions for Toyota "G" chip key (year: 2010) (Chip: 4D-72). And it will show if the key is the main key or the vice key for Toyota, and later will add new identify function for the Chinese Car.</p> <p>Function 2:</p> <p>It can identify Toyota smart key, and read out the data.</p> <p>Function 3:</p> <p>It supports on copying the chips (11 12 13 33 T5 41 and 42) and parts of 44 and 45. Using "FREE" dedicated chips can copy none battery 4C and 4D chips directly. (Remark :cn1(4C),cn2(4D) is the name of special chip)</p> <p>Function 4:</p> <p>Connecting with PC software, it can save the read key code data unlimited.</p> <p>Function 5:</p> <p>Support on the chip programming: with the inner function of HITAGETI, it can write ID 46 Renault Crypto chips.</p> <p>Function 6:</p> <p>Without removing the ECU (Benz W140), it can start the chip.</p> <p>Function 7:</p> <p>It can unlock the 48 chips except the crypto lock 48 chips.</p> <p>Function 8:</p> <p>Support on the pin code calculating for Hyundai and Kia (before 07 year), by using the Last 6 Codes of VIN Number.</p> <p>Function 9:</p> <p>Support on starting the key and calculating the pin code for more than 60 kinds of cars. Support on programming all kind of Fiat key, such as (11, 13 and 33), These 3 kinds of 48 chips anti-theft way.</p> <p>Function 10:</p> <p>It Upgrade to identify HONDA_46 CRV_46/CIVIC_46/ Mitsubishi 46 Ordinary 60 can be programmed to be 66/67/68/71/74</p> <p>Function 11:</p> <p>It Upgrade to copy CN1 (4C), CN2 (4D) chip .And size is 6mmX12mmX4mm Support on the software update, such as adding new function for copying the induction card for Electronic Gate. Support Vehicle Model list(directly copy):</p> <ol style="list-style-type: none"> <li>11,12,13,33 (Select T5 chip to copy) common models: Zhonghua Junjie, Jinbei, Changhe, Honda (America). etc</li> <li>ID42 (Select ID42 chip to copy) common models: <i>Jetta 2006 or earlier</i></li> <li>4C chip (select the YS-01/YS02/CN1/CN2 chip to copy) common models: <ul style="list-style-type: none"> <li>Besturn B50- Besturn B70(Besturn B70 series up to 2012)</li> <li>KIA Carnival - Nissan 4D60 chip series</li> <li>Mitsubishi 4D61 chip series</li> <li>Subaru 4D62 chip series</li> <li>Ford 4D63 chip series</li> <li>Suzuki-4D65 chip series</li> <li>Toyota 4D67-4D68 series</li> <li>Yamaha Motorcycle 4D69 series</li> <li>Kawasaki - Ducati motorcycle series</li> <li>Toyota smart Card(4D71 Series before 2009)</li> </ul> </li> </ol>		
2	Total system shall be built in such a way that total processes & Components of the entire system can be		

<b>Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar</b>			
Ref No. Sl. No. 24 Advanced of Annex 7			
	demonstrated.		
	Display of equipment specification to be provided.		
3	Operating manuals containing Theory, Procedure to conduct experiments and troubleshooting in hard and soft copy in CD		3 sets
4	Colour	Standard Colour	
5	Recommended spares for 2 years of normal Operation	Item wise 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. Sl. No. 35 of Annex 7			
Sl. No.	Brief Specification		Qty.
	<b>Spark plug Cleaner &amp; Tester</b> with suitable air compressor suitable for Single phase, 230 V, 50Hz AC supply. (MCBs to be used in place of fuses)		1 No.
1	<b>Major specifications</b>		
	Spark Plug Cleaner working on the Pneumatic air supply with the requirement of Air Pressure 8 - 10 kg/cm <sup>2</sup> . With abrasives and blast cleaning The performance of the spark shall be viewed in the inspection hole. Suitable for M10, M14 and M18 Plugs and supplied with ½ Kg of abrasive sand material. Mounted on a suitable table.		
1	Display of equipment specification to be provided.		
2	Operating manuals and troubleshooting		3 sets
3	Colour	Standard Colour	
4	Recommended spares for 2 years of normal Operation	Item wise quantity with price to be provided	1 set
5	Items required for commissioning at site	Touch up paint, Brush etc. – Required qty.	1 set

## LOT 14 - ULTRASONIC CRACK DETECTOR

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar		
Item : Ultrasonic Crack Detector		
Ref. No. Sl. No. 29 of Annex 9 – 1 no		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
<b>1</b>	<b>Digital Ultrasonic Flaw Detectors</b> with colour display, Auto DAC Plotting, Digital thickness / Distance measurements, trigonometric measurements of depth and surface distance in weld inspection, Memory of 200 scans images & 50 Set-up data, RS232 for PC connectivity with transfer software.	<b>1</b>
<b>1.1</b>	<b>Major Specifications</b>	
1.1.1	Test Range	10 mm to 5 Meter (in Steel) adjustable in 1mm / 10mm step
1.1.2	Velocity	1000m/s to 9999 m/s adjustable in 1m/s/10m/s step. Direct velocity setting for longitudinal and shear wave for steel.
1.1.3	Rectification	Full wave rectified with filtering
1.1.4	Frequency	0.5 MHz to 10 MHz
1.1.5	Memory	To store atleast 200 trace patterns & 50 calibration set-ups
1.1.6	Calibration set-up	50 different set-ups
1.1.7	Software	Suitable Interface software for transferring of Scan from equipment to PC
1.1.8	Printer Port	RS232C serial
1.1.9	Display	Colour LCD/TFT
1.1.10	Reference scan	Retrieval of scan, saved for Reference pattern, for comparison during testing.
1.1.11	Auto DAC Plotting	DAC curve plotting on screen with – 6dB and -14dB DAC curves. DAC curve can be set as flaw monitor gate with -6dB and -14dB DAC curves.
1.1.12	Digital readout & Trig Function	Thickness/ Depth can be displayed when using a normal probe and beam path, surface distance and Depth are directly displayed when angle probe in use.
1.1.13	Power	Lithium Ion battery pack to give minimum 8 hours continuous operation when from fully charged.
<b>1.2</b>	<b>Accessories</b>	
1.2.1	Lithium Ion Battery pack with battery charger suitable for 230V 50Hz input power supply	1 set
1.2.2	<b>Data cables</b> for interfacing equipment with PC and printer	1 set
1.2.3	<b>Probes with cable and connectors:</b> All types of suitable probes of normal, angle and dual	1 set

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

**Item : Ultrasonic Crack Detector**

Ref. No. Sl. No. 29 of Annex 9 – 1 no

**Qty : 1 No.**

**TECHNICAL SPECIFICATION**

Sl. No.	Description	Qty
	types required for training needs. <b>Detailed list of items to be enclosed.</b>	
1.2.4	<b>Reference / calibration blocks:</b> All types of reference / calibration blocks required for training needs. <b>Detailed list of items to be enclosed.</b>	1 set
1.2.5	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	3 sets (Total)
<b>1.3</b>	<b>Colour:</b> Standard	
<b>1.4</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	

**LOT 15 – (1) Computer Work station**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Computers</b> Ref No. Sl. No. 4 of Annex-1-20 nos Ref No. Sl. No. 18 of Annex-6-20 nos		<b>Qty: 40 nos</b>
Sl. No.	Feature	Specifications
	Make	HP/Acer / Dell / Lenovo workstation
1	Processor	Intel Core i5, 7 <sup>th</sup> Gen or Higher
2	Chipset/Mother Board	Intel C236 or higher
3	Memory	8 GB DDR4 RAM Expandable up to 64GB ECC/non-ECC, DDR4
4	Hard Disk Drive	Min 1TB SATA Hard Drive,
5	Optical Drive	DVD Writer
6	Graphics	2GB Dedicated graphics (NVIDIA)
7	Ethernet	Integrated Gigabit Network Connection 10/100/1000.
8	Ports	1 headphone; 1 microphone: 8x USB ,Display Port ; 1 DVI-I Port ; 1 RJ-45; 1 audio line-in; 1 audio line-out
9	Monitor	21.5" LED backlit LCD monitor or above
10	Keyboard	USB keyboard (Same make as OEM)
11	Mouse	USB optical scroll mouse (Same make as OEM)
12	Operating System	Preloaded with Microsoft Windows 10 Professional 64 bit
13	Power supply	250V +/- 10%, 50 Hz AC supply
14	Warranty	1 Year

**LOT 16 – (1) Computer desktop, Lap top & Software**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Desktops Ref No. Sl. No. 2 of Annex-10		Qty: 20 nos.
	Make	HP / Acer / Dell / Lenovo
Sl. No.	Feature	Specifications
1	Processor:	Intel 7th Gen processor – Core i3 higher
2	Motherboard	Intel B360 or higher / OEM motherboard
3	Memory:	4 GB DDR4 (2400Mhz) or better with 2DIMM Slots expandable upto 32GB
4	Hard Disk Drive:	1TB 7200 rpm SATAII (3Gb/s)
5	Hard Disk Controller:	Integrated On-Board Hard Disk Controller supporting Serial ATA Interfaces
6	Monitor	19.5" Wide TFT TCO 06 monitor. Monitor resolution to be 1366 *768
7	Display	Support dual Display
8	Power Supply	Min 250W SMPS
9	Key Board	USB 104 Keys or more Multimedia Keyboard Rupee ready isolated keyboard
10	Mouse	USB Optical Scroll Mouse
11	Network Card	Integrated on board Ethernet Controller 10/100/1000 with PXE support and Remote wake up
12	Interfaces	1Serial, 1 parallel, Minimum 8 USB ports with atleast 4USB 3.0
13	Expansion-Graphics Slots	Min 4PCIe slots withatleast 1PCIe X16
14	Cabinet	Chassis with max 26ltrs
15	Audio	Integrated on board audio controller
16	Operating System	Win 10 prof - 64bit
17	MS Office	MS Office Home and Student preloaded 2016
18	Antivirus	Mcafee 1 year subscription
19	<b>Certification</b>	<b>EPEAT Gold India</b>



## 16 – (2) Laptops

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Laptops</b> <b>Ref No. Sl. No. 3 of Annex-10- 10 nos</b> <b>Ref No. Trg Matl - Annex-11- 30 nos</b>		<b>Qty: 40 nos.</b>
Sl. No.	Feature	Specifications
	Make	HP / Acer / Dell / Lenovo
1	MAKE/MODEL	Should be specified.
2	PROCESSOR	Intel 7th Gen processor – Core i3 higher
3	CLOCK SPEED	1.8 Ghz. Or higher.
4	Motherboard	OEM motherboard
5	CACHE MEMORY	3MB L2 cache
6	FLASH MEMORY (SD SLOT)	Card Reader slot for SD/MICRO SD card.
7	RAM	Minimum 4GB DDR4 with 2 DIMM slot
8	DISPLAY	14.0" FHD display with 1920x1080 pixel resolution or more, Mercury Free
9	HINGES	Metal "reinforced hinges.
10	GRAPHICS	Integrated Graphics Card.
11	AUDIO	Two built-in stereo speakers with high definition audio support. Built-in microphone.
12	BLUETOOTH	Enabled 4.0 or higher
13	WEBCAM	Integrated HD Webcam
14	OPTICAL DEVICE DRIVE	Internal DVDRW
15	HARD DISK	1TB HDD 7200rpm or higher.
16	SSD	Should have the capability to install the SSD for later upgradability along with the HDD
17	ETHERNET CONTROLLERS	Gigabit Ethernet
18	WIRELESS DEVICE	Intel Wireless 802.11 ac Dual band
19	INTERFACES	RJ-45, Min. 2 USB3.0 & 1 USB 2.0, Audio combo port, AC Adapter Jack, HDMI port, VGA port, Kensington lock slot
20	KEYBOARD & TOUCH PAD DEVICE	Backlit Standard Keyboard with touch pad with Multi gesture support
21	SECURITY	BIOS password, Finger print reader, TPM 2.0
22	ACCESSORIES (COST INCLUDED)	3 pin Indian Adapter
23	BATTERY BACKUP	4 cell battery with 41 Whr or more capacity
24	CARRY CASE	OEM carry Bag or Back pack
25	WEIGHT	Not exceeding 2.1 KGS including battery and DVDRW
26	OPERATING SYSTEM (OS)	Preloaded Microsoft Windows 10 professional 64 bit with recovery media or image in the machine
27	WARRANTY	1 years warranty
28	CERTIFICATION	UL, FCC, EPEAT Gold, Energy Star 6.0, CE, ISO 27001
29	Antivirus	Mcafee 1 year subscription

**LOT 16 – (3) Software - Preloaded**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Software Ref No. Sl. No. 3 of Annex-10- 10 nos Ref No. Trg Matl - Annex-11- 30 nos		Qty: 40 nos.
Ref. No.	Feature	Specifications
Sl. No 16.02 of Annex 10	MS office – Home & Student with media	

**LOT 17 – (1) Server**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Item: Server</b> <b>Ref No. Sl. No. 5 of Annex- 1 - 1 no</b> <b>Ref No. Sl. No. 19 of Annex-6 – 1 no</b> <b>Ref No. Sl. No. 1 of Annex-10 – 1 no</b>		<b>Qty: 3 Nos.</b>
<b>Sl. No</b>	<b>Feature</b>	<b>Specifications</b>
	<b>Make</b>	<b>HP / Acer / Dell / Lenovo</b>
1	Processor	Intel Xeon E3-1225v5 or higher
2	Chipset	Intel C236 or higher
3	Memory	Min 16 GB DDR4 or higher ( Expandable upto 64GB)
4	HDD	1TB SATA
5	Optical / diskette	DVD-ROM or DVD RW Optical Drive
6	Keyboard	USB keyboard
7	Mouse	USB optical scroll mouse (Same make as OEM)
8	Network Controller	Integrated Gigabit Network Connection 10/100/1000.
9	RAID support	Raid Controller with RAID 0, 1,10,5 SATA support
10	OS support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL)
11	Power	300W power supply
12	Form Factor	Tower server
13	Monitor	21.5” LED backlit LCD monitor or above
14	Warranty	1 Year

**LOT 17 – (2) UPS for server**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Online UPS for server &amp; workstation</b>		<b>Qty: 2 nos.</b>
<b>Ref No. Sl. No. 5 of Annex- 1 - 1 no</b>		
<b>Ref No. Sl. No. 19 of Annex-6 – 1 no</b>		
<b>Sl. No.</b>	<b>Feature</b>	<b>Specifications</b>
1	UPS Capacity	1.5 KVA
2	Output Power Capacity	1500VA
3	Max Configurable Power	1500VA
4	Nominal Output Voltage	220 VAC
5	Output Frequency (sync to mains)	50Hz ~1Hz
6	Waveform Type	Pure Sinewave
7	Nominal Input Voltage	160VAC-270VAC
8	Voltage on battery	220/230 VAC
9	Input Frequency	45-65Hz (Autosensing)
10	Battery Type	12V- Tubular
11	Typical recharge time	6 hrs. to 90% After complete discharging
12	Backup Time	60 Mints
13	Battery MAKE	Standard makes
14	Alarm Battery Low	Sounds every second
15	Alarm Overload	Sounds every 0.5 seconds
16	Transfer time Mains to invertor	5 ms
17	Operating Environment	0-40C, 0-90%
18	Operating Relative Humidity	Relative humidity (Non Condensing)
19	Audible noise at 1 meter from surface of unit	< 40db
20	Warranty	1 Year Warranty including batteries

**LOT 17 – (3) Smart UPS**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Smart UPS for server with 16 Batteries &amp; stand for bateries</b>		
<b>Ref No. Sl. No. 10 of Annex-10 – 1 no</b>		
<b>Sl. No.</b>	<b>Feature</b>	<b>Specifications</b>
1	UPS Capacity	5 KVA
2	Nominal Output Voltage	220V / 230V / 240V AC (L+N+PE)
3	Operating Voltage Range	100V~300V AC Load Dependent
4	Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)
5	Power Factor	≥0.99
6	ECO Range	Same as the Bypass, can be configured
7	Generator Input	Competible
	<b>OUTPUT</b>	
8	Rated Voltage	220V / 230V / 240V AC L+N+PE (Configurable)
9	Power Factor	0.8 (Standard) 0.9 (Optional)
10	Frequency	Auto Sensing 50 / 60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode
11	Crest Factor	3:1
12	Efficiency	Up to 94% Dual Conversion Mode, 99% ECO Mode
13	Overload	≤ 125% for 10 Min, ≤ 150% for 30 Sec, ≥ 150% for 200ms
14	<b>BATTERY</b>	16 BATTERY with battery Stand
15	Backup Time	60 Minutes
16	Battery Voltage	192V DC / 216V & 240V DC (Configurable)
17	Battery MAKE	Standard makes
18	Typical Recharge Time	6~8 Hours to 90% of full Capacity
19	Charge Current	6A
20	Warranty	1 Year Warranty including batteries
	<b>SYSTEM FEATURES</b>	
21	IP Protection	IP 20

22	Alarm / Protection	Short Circuit, Input Under/Over Voltage, Over Temperature, Over Current,
23	EPO / ECO / CVCF	Shutdown UPS Immediately / ECO and CVCF Mode can be Configurable
24	LED Display	Line Mode, Backup Mode, ECO Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault
	<b>COMMUNICATION INTERFACE</b>	
25	Standard	RS-232
26	Optional	SNMP / ModBus / Dry Contact / USB / RS-485
27	Monitoring Software	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000

**LOT 17 – (4) Portable Hard Disks**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Portable Hard Disks</b> <b>Ref No. Sl. No. 11 of Annex 10 – 10 nos</b>		<b>Qty: 10 nos.</b>
1	Portable Hard Disks	1 TB, Portable USB powered External Hard disk drive

**LOT 17 – (5) Interactive White Board**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Interactive White Board</b> Ref No. Sl. No. 37 of Annex-3 – 1 no Ref No. Sl. No. 175 of Annex-8 – 1 no Ref No. Sl. No. 9 of Annex-10 – 2 nos		<b>Qty: 4 nos.</b>
1	Make	Latest configured
2	Active Board Size	78 inches or above
3	Aspect Ratio	4:3
4	User Input	Touch
5	Technology	Infrared
6	Interface	USB



**LOT 17 – (6) Networking Hardware set**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar	
<b>Networking Hardware set</b> Ref No. Sl. No. 6 of Annex-1-1set	<b>Qty 1 set</b>
<b>Sl. No.</b>	<b>Specifications</b>
1	24 Port Unmanaged Gigbit Ethernet Switch- <b>1No</b>
2	Standard CAT 6 Cable 305 Mtr- <b>1Box</b>
3	CAT6 I/O box with back plate for data - <b>1No</b>
4	24 Port Jack Panel - <b>1 No</b>
5	2Mtr CAT6 Patch Cord- <b>1No</b>
6	RJ 45 (100Nos )-1 Box
7	RJ 45 Crimping Tool & punching tool each one No
8	6U rack with fan, power extended, cable manager and accessories- <b>1 No</b>

**LOT 17 – (7) LCD Projector with Screen & Wall mount**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>LCD Projector with Screen &amp; Wall mount</b>		<b>Qty: 12 nos.</b>
<b>Ref No. Sl. No. 22 of Annex-2 – Qty 1 no.</b>		
<b>Ref No. Sl. No. 8 of Annex-10 – Qty 1 no.</b>		
<b>Ref No. Trg Matl of Annex-11 – Qty 10 nos.</b>		
1	Make	Latest configured
2	Brightness	3000 ANSI Lumens
3	Contrast Ratio	15000:01:00
4	Projection System	3LCD
5	Display Resolution	XGA, 1024 x 768
6	Lamp Life (Normal / Eco)	6,000 hours ( Normal) / 10,000 hours (economy mode) or better
7	Image Size	30 - 300 inch
8	Key stone Correction	+/- 30 degree (Vertical) +/- 30 degree ( Horizontal)
9	Focusing	Manual
10	Zoom	Manual, Factor: 1,2
11	Connectivity	VGA
		HDMI
12	Interfaces	USB
13	Speaker	2 W Integrated speaker
14	Power source	AC-240 V, 50/60 Hz
15	Accessories	<ul style="list-style-type: none"> <li>• Suitable Ceiling mounting Kit</li> <li>• 6x8 white Projector Screen</li> <li>• 15 meter Power Cable, 20 meter VGA Cable, 15 meter HDMI and USB Cable</li> </ul>
16	Warranty	1 Year

**17 – (8) Wireless Access Point**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Wireless Access Point</b> Ref No. Sl. No. 5 of Annex-10 – Qty 2 nos.		<b>Qty: 2 nos.</b>
1	Wireless Access Point	High Speed 2.4 GHz to 2.4835 GHz (802.11 b/g wireless 108 Mbps Access Point)

**17 – (9) Wireless Router**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Wireless Router</b> Ref No. Sl. No. 4 of Annex-10 – Qty 1 no.		<b>Qty 1 no</b>
1	Wireless Router	

**17 – (10) Wireless LAN Card**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Wireless LAN Card</b> Ref No. Sl. No. 6 of Annex-10 – Qty 22 nos		<b>Qty: 22 nos.</b>
1	Wireless LAN Card	300 Mbps LAN 802.11n/g/b wireless wifi network PCI Card

**LOT 17 – (11) Photo Copier**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Photo Copier</b> Ref No. Trg Matl of Annex-11 – Qty 10 nos		<b>Qty: 10 nos.</b>
1	Make	Latest configured
2	Size	A3 Print/Copy/Scan
3	Type	B/W Laser Multifunctional (Reader/Printer Console)
4	Copy speed	A4-20PPM, A3-10PPM
5	Resolution	(1) scan line colour 300x300dpi (2)Copy & Print:600X600dpi
6	Scan features	TWAIN, WIA compatible
7	Supported file format (scan)	PDF/searchable PDF/Compact PDF, BMP, JPEG, TIFF
8	Processor speed	Minimum 400 Mhz
9	memory capacity	Minimum 512 MB
10	Paper handling paper size	A3, B4, A4R, A4,B5R,B5,A5R
11	Paper Input Capacity	Min 250 Sheets
12	Connectivity interface	Network Ethernet 100 BASE-TX/10 Base-T
13	OS Compatibility	All versions of windows and Mac
14	Power consumption	220-240W AC, 50/60 Hz
15	Warranty	1 Year

**LOT 17 – (12) Plotter**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Plotter</b> Ref No. Sl. No. 11 of Annex-1 – 1 no Ref No. Sl. No. 24 of Annex-6 – 1 no		<b>Qty 2 nos</b>
Sl. No.	Feature	Specifications
	Make	HP
1	Technology	Thermal Inkjet
2	Number of print cartridges	4
3	Memory	Min 1GB RAM
4	Connectivity,	Fast Ethernet (100Base-T); Hi-Speed USB 2.0
5	Print Resolution	2400 x 1200
6	Web Connectivity	Up-to 36 inch (914 mm)
7	Paper Size	A0 to A3 paper roll
8	Warranty	1 Year

**LOT 17 – (13) Colour Laser Networking Printer**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Colour Laser Networking Printer</b> Ref No. Sl. No. 7 of Annex-10 – 1 no		<b>Qty: 1 no.</b>
1	Make	HP
2	Functions	Print, Scan, Copy
3	Technology	LASER
4	Print Speed	Black (A4): Up to 16 ppm; Colour (A4): Up to 16 ppm
5	Print Resolution	<b>600 x 600 dpi</b>
6	Memory	256 MB or Higher
7	Duty cycle	Up to 20,000 pages or above
8	Scan Speed	Normal (A4): Up to 14 ppm
9	Network Printing	Yes
10	Standard Interface	High Speed USB 2.0, 10/100 Base Tx Ethernet
14	Paper Input Capacity	150 Sheets
15	Operation Systems Supported	Server 2003, XP Home and Professional, Windows 7,8 & 10, Vista
16	Warranty	1 Year Warranty

**LOT 17 - (14) Laser Networking Printer**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Laser Networking Printer</b>		<b>Qty: 2 nos.</b>
<b>Ref No. Sl. No. 10 of Annex-1 – 1 no</b>		
<b>Ref No. Sl. No. 23 of Annex-6 – 1 no</b>		
<b>Sl. No.</b>	<b>Feature</b>	<b>Specifications</b>
	<b>Make</b>	<b>HP</b>
1	Functions	Print, Scan, Copy
2	Technology	LASER
3	Print Speed	(A4) Up to 20 ppm or above
4	Print Resolution	<b>600x600 DPI</b>
5	Memory	128 MB or Higher
6	Recommended monthly page volume:	250 to 2000 pages
7	Scanner	1200x1200 dpi, USB connectivity
8	Network Printing	Yes
9	Standard Interface	High Speed USB 2.0, 10/100 Base Tx Ethernet
10	Paper Input Capacity	150 Sheets
14	Operation Systems Supported	Server 2003, XP Home and Professional, Windows 7,8 & 10, Vista
15	Warranty	1 Year Warranty

**LOT 17 – (15) Software -**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Ref No. Sl. No. 16 of Annex-10 – 1 lot</b>		<b>Qty:</b>
<b>Software (Academic Version)</b>		
	Windows Server Standard 2016 R2	1
2	MS SQL Server Standard 2017	1
3	Visual Studio 2017 professional	1
4	Corel DRAW Graphics Suite X8-Single user license	1
5	CorelDraw Graphics Suite X8 Maintenance (2 yrs)	1
6	Adobe Captivate for Teams- Annual Subscription	1
7	Adobe CS5.5 master collection	1
8	Autodesk 3ds Max 2015 Education Annual Subscription	1
9	Kaspersky internet security 10 users Box with 1 year subscription	4

**LOT 18 - WELDING EQUIPMENT**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Item : WELDING TRANSFORMER</b>		
<b>Ref. No: Annexure 9/17</b>		<b>Qty : 4 Nos</b>
Sl. No.	Description	
<b>1</b>	<b>WELDING TRANSFORMER:</b> Welding transformer complete unit operating with 3 phase, 400V, 50 Hz AC, along with indefinitely variable current regulator of 40 to 300 A, mounted on suitable Castor wheels as per the following specifications.	
a.	All the three phases are to draw current from the lines according to the load and should not draw a fixed current with load or without load.	
b.	Open Circuit voltage to be atleast 80V for efficient arc striking.	
c.	The transformer should supply the required output and be able to dissipate its heat naturally without the use of external fans.	
<b>1.10</b>	<b>BRIEF SPECIFICATION:</b>	
<b>1.11</b>	<b>INPUT POWER:</b>	
a.	Primary Voltage/ Phase / Frequency: 400 V, 3 Phase, 50Hz	
b.	Input power @ 100% Duty Cycle: 12 KVA	
c.	Input Switch Fuse Rating: 50 A	
<b>1.12</b>	<b>OUT PUT POWER:</b>	
a.	Open Circuit Voltage: 80 V	
b.	Open Arc Voltage 22: 32 V	
c.	Welding Current Range: 40 -300 A	
d.	Max. Hand Welding Current @ 60% Duty Cycle: 300 A	
e.	Max. Continuous Welding Current @ 100% Duty Cycle welding: 180 A	
f.	Welding Electrode Range:2.0 -5.0 mm	
<b>1.13</b>	<b>GENERAL:</b>	
a.	Type of cooling : Natural Air	
b.	Class of Insulation: H	
c.	Protection Class: IP 23	
<b>1.20</b>	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT-EACH SET CONTAINING FOLLOWING</b>	
1.21	Welding cable - 5 Meters length	1 No.
1.22	Electrode holder	2 Nos.
1.23	Earth cable – 5 Meters length	1 No.
1.24	Earthing clamp	1 No.
1.25	Welders cap	2 Nos.
1.26	Head shield	1 No.
1.27	Black glass	1 No.
1.28	Plain glass	2 Nos.
1.29	Hand gloves	1 Pair
1.30	Leg guard	1 Pair
1.31	Chipping hammer	1 No.
1.32	Wire brush	1 No.
1.33	Container bag	1 No.
1.34	General purpose Welding electrodes 20kg box	5 Boxes
<b>1.30</b>	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION (EACH EQUIPMENT 1 SET)</b> Please Indicate the detailed list of spares with individual prices	1 No.
<b>1.40</b>	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	1 No.

**Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar**

<b>Item : WELDING TRANSFORMER</b>		
<b>Ref. No: Annexure 9/18</b>		<b>Qty : 4 Nos</b>
<b>Sl. No.</b>	<b>Description</b>	
<b>2</b>	<b>WELDING TRANSFORMER:</b> Welding transformer complete unit operating with 3 Ph, 400V, 50 Hz AC, along with indefinitely variable current regulator of 40 TO 400A mounted on suitable caster wheels as per the following specifications.	
a.	All the three phases are to draw current form the lines according to the load and should not draw a fixed current with load or without load	
b.	Open Circuit voltage to be atleast 80V for efficient arc striking.	
c.	The transformer should supply the required output and be able to dissipate its heat naturally without the use of external fans.	
<b>2.10</b>	<b>BRIEF SPECIFICATION:</b>	
<b>2.11</b>	<b>INPUT POWER:</b>	
a.	Primary Voltage / Phase / Frequency : 400v / 3phase / 50 Hz	
b.	Input Power @ 100% Duty Cycle - 15 KVA	
c.	Input Switch Fuse Rating – 60 A	
<b>2.12</b>	<b>OUT PUT POWER:</b>	
a.	Open Circuit Voltage – 82 V	
b.	Open Arc Voltage – 22 – 36 V	
c.	Welding Current Range – 70 to 400 V	
d.	Max. Hand Welding Current @ 60% Duty Cycle – 400 A	
e.	Max. Continuous Welding Current @ 100% Duty Cycle – 240 A	
f.	Welding Electrode Range – 2.5 to 6.3 mm	
<b>2.13</b>	<b>GENERAL:</b>	
a.	Type of cooling – Natural Air	
b.	Class of Insulation – H	
c.	Protection Class – IP 23	
<b>2.20</b>	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT-EACH SET CONTAINING FOLLOWING</b>	
2.21	Welding cable – 5 meters	1 No.
2.22	Electrode holder	2 Nos.
2.23	Earth cable – 5 meters length	1 No.
2.24	Earthing clamp	1 No.
2.25	Welders cap	2 Nos.
2.26	Head shield	1 No.
2.27	Black glass	1 No.
2.28	Plain glass	2 Nos.
2.29	Hand gloves	1 Pair
2.30	Leg guard	1 Pair
2.31	Chipping hammer	1 No.
2.32	Wire brush	1 No.
2.33	Container bag	1 No.
2.34	General purpose Welding electrodes-20kg box	5 Boxes
<b>2.30</b>	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION (EACH EQUIPMENT 1 SET)</b>	
2.31	Please Indicate the detailed list of spares with individual prices	
<b>2.40</b>	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	1 No.

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : WELDING RECTIFIER		
Ref. No: Annexure 9/19		Qty : 2 Nos
Sl. No.	Description	
<b>3</b>	<b>WELDING RECTIFIER:</b> Welding rectifier complete unit operating with 3 Ph, 400V, 50 Hz AC, diode based with output current range up to 600A mounted on suitable wheels for easy manouorability as per the following specifications.	
a.	The rectifier should have 3phase full wave bridge rectifier with a perfectly balanced transducer and output choke.	
b.	Overload breaker to be fitted for control circuit for switch resetting.	
c.	Built in Hot start with provision to adjust the percentage of hot start for specific electrodes.	
d.	Transformer and magnetic amplifier to be of separate construction.	
e.	Remote amperage control on a 3pin connector with switch for selection.	
<b>3.10</b>	<b>BRIEF SPECIFICATION:</b>	
<b>3.11</b>	<b>INPUT POWER:</b>	
a.	Primary Voltage /Phase / Frequency: 400V/3 phase/50 Hz	
b.	Input Power @ 100% Duty Cycle: 35 KVA	
c.	Input current @ 100% Duty Cycle: 50 A	
<b>3.12</b>	<b>OUTPUT POWER:</b>	
a.	Open Circuit Voltage: 80 V	
b.	Welding Current Range: 60 – 600 A	
c.	Max. Welding Current @ 60% Duty Cycle: 600 A	
d.	Max. Welding Current @ 100% Duty Cycle: 465 A	
e.	Welding Electrode Range: 2– 6.3 mm	
<b>3.13</b>	<b>GENERAL:</b>	
a.	Type of cooling: Forced Air	
b.	Class of Insulation: H	
c.	Protection Class: IP23	
<b>3.20</b>	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT-EACH SET CONTAINING FOLLOWING:</b>	
3.21	Welding cable – 5 meters	1 No.
3.22	Electrode holder	2 Nos.
3.23	Earth cable – 5 meters	1 No.
3.24	Earthing clamp	1 No.
3.25	Welders cap	2 Nos.
3.26	Head shield	1 No.
3.27	Black glass	1 No.
3.28	Plain glass	2 Nos.
3.29	Hand gloves	1 Pair
3.30	Leg guard	1 Pair
3.31	Chipping hammer	1 No.
3.32	Wire brush	1 No.
3.33	Container bag	1 No.
3.34	General purpose Welding electrodes, 20kg box	5 Boxes
<b>3.30</b>	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION ( EACH EQUIPMENT 1 SET)</b>	
3.31	Please Indicate the detailed list of spares with individual prices	
<b>3.40</b>	Operation/ Service/ Spare parts manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	1 No.



Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : SPOT WELDING MACHINE		
Ref. No: Annexure 9/20		Qty : 1 No
Sl. No.	Description	
4	<b>SPOT WELDING MACHINE:</b> Spot Welding Machine/Equipment complete unit operating across 2 phase, 400 V,50 Hz AC, rated 25 KVA equipped with a 4 function synchronous CMOS IC control & Thyristor panel including all standard accessories as per following specifications and accessories.	
4.10	<b>BRIEF SPECIFICATION:</b>	
4.11	<b>INPUT POWER:</b>	
a.	Power supply: 400 V	
b.	Phase / Frequency: 2 phase / 50 Hz	
c.	Rating @ 50% Duty Cycle: 25 KVA	
4.12	<b>MACHINE / EQUIPMENT DATA:</b>	
a.	Throat depth: 450 mm	
b.	Rating @ 50% Duty Cycle: 25 KVA	
c.	Max secondary short circuit current at throat depth 450 mm: 14 KA	
d.	Standard stroke: 50 mm	
e.	Throat gap: 315 mm	
f.	Max electrode force at 5.6 Kg/cm <sup>2</sup> : 440 kg	
g.	Weld cylinder dia: 100 mm	
4.20	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH MACHINE / EQUIPMENT</b>	
4.21	Welding Electrodes	20 Nos.
4.22	Air Valve	1 No.
4.23	Filter Regulator & Lubricator (FRL)	1 No.
4.24	Copper Flex	1 No.
4.25	Thyristor	1 No.
4.26	Seal kit	1 No.
4.27	Filter card	1 No.
4.28	24 V DC Air valve coil (1/4 " BSP)	1 No.
4.29	Spare MCBs	1 No.
4.30	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION (EACH EQUIPMENT 1 SET)</b>	
4.31	Please Indicate the detailed list of spares with individual prices	
4.40	Operation/ Service/ Spare parts manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	1 No.

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : MIG WELDING EQUIPMENT		
Ref. No: Annexure 9/21		Qty : 3 Nos
Sl. No.	Description	
5	<b>MIG WELDING EQUIPMENT:</b> MIG Welding equipment complete unit operating on 3 Phase 400V, 50Hz, AC, thyristor based power source, remote controlled indefinitely variable current of 60 – 400A along with wire feeder & Torch, mounted on suitable wheels for easy manourability as per following specifications and accessories.(all accessories of the equipment shall confirm to ISI standard or equivalent).	
a.	Secondary short circuit protection for the power source.	
b.	Crater voltage and crater current control facility	
5.10	<b>BRIEF SPECIFICATION:</b>	
5.11	<b>INPUT POWER:</b>	
a.	Supply Voltage - 400 V	
b.	Phase / Frequency: 3 phase / 50 Hz	
c.	Input Power @ 60% Duty Cycle: 21 KVA	
d.	Input Power @ 100% Duty Cycle: 19 KVA	
5.12	<b>OUTPUT POWER:</b>	
a.	Open Circuit Voltage – 50 V	
b.	Welding Current Range – 60 to 400 A	
c.	Max. Welding Current / load - @ 60% Duty Cycle – 400A/34 V	
d.	Max. Welding Current / load - @ 100% Duty Cycle – 310A/ 29.5 V	
5.13	<b>GENERAL:</b>	
a.	Type of cooling – Forced air	
b.	Class of Insulation – H	
c.	Type of Current & Voltage Control – Remote control unit	
5.14	<b>WIRE FEEDER:</b>	
a.	Wire drive motor – DC Motor 18 V/ 65 W	
b.	Wire Diameter – 0.8 to 1.6 mm	
c.	Wire Feed Speed – 1.2/18 meter/minutes	
d.	Drive System – 2 Roll quick release type	
5.15	<b>TORCH:</b>	
a.	Max. Current Capacity @60% duty cycle:	
b.	under CO2 - 400 A	
c.	under MIG - 320 A	
d.	Type of Cooling – Gas	
5.20	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT – EACH SET CONTAINING FOLLOWING</b>	
5.21	Carbon di oxide gas cylinder fitted with double stage double gauge pressure & flow regulators mounted on a trolley	1 Set
5.22	Suitable CO2 Gas hose of 5 meters length	1 No.
5.23	Welding cable and control cable of each 5 meters length	1 Set
4.24	Earthing cable and clamps of 5 meters length	1 Set
5.25	Welders cap	2 Nos.
5.26	Head shield	1 No.
5.27	Black and Plain Glass one number each	1 Set
5.28	Chipping hammer	1 No.
5.29	Wire brush	1 No.
5.30	Container bag	1 No.
5.31	Anti spatter spray (100 ml pack)	10 Nos.

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : MIG WELDING EQUIPMENT		
Ref. No: Annexure 9/21		Qty : 3 Nos
Sl. No.	Description	
5.32	Contact tip 1.2 mm	25 Nos.
5.33	Tip holder	5 Nos.
5.34	Liner	3 Nos.
5.35	Roller (1.2 mm)	2 Nos.
5.36	General purpose copper coated Co2 wire (15 kgs. each)	10 Rolls
5.37	Gas Preheater	1 No.
<b>5.30</b>	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION ( EACH EQUIPMENT 1 SET)</b>	
5.31	Please Indicate the detailed list of spares with individual prices	
<b>5.40</b>	Operation/ Service/ Spare parts manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore	1 No.

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar	
Item : TIG WELDING EQUIPMENT	
Ref. No: Annexure 9/22	Qty : 3 Nos
Sl. No.	Description
6.	<b>TIG WELDING EQUIPMENT:</b> TIG Welding equipment complete unit operating on 3 Phase 400V, 50Hz, AC, thyristor based power source, with variable current of 40 – 400A along with welding control unit & Torch, mounted on suitable wheels for easy manourability as per following specifications and accessories.(all accessories of the equipment shall confirm to ISI standard or equivalent.
a.	Power source with Line voltage compensation for maintaining weld consistency, keeping output power constant even with line voltage changes of $\pm 10\%$
B	Remote on/off control for the easiness of operators to turn power source on /off from a distance.
c.	Power source with six pulse full wave thyristor control.
d.	Foot current control remote for TIG welding where the output current will increase when the welder increases the pressure on the foot remote but only to the set value of the current at the power source.
6.10	<b>BRIEF SPECIFICATION:</b>
6.11	<b>INPUT POWER:</b>
a.	Primary Voltage: 400V
b.	Phase / Frequency: 3 phase / 50 Hz
c.	Input Power @ 100% Duty Cycle: 19 KVA
6.12	<b>OUTPUT POWER:</b>
a.	Open Circuit Voltage: 80 V
b.	Welding Current Range: 20 – 400 A
c.	Max. Welding Current @ 60% Duty Cycle: 400 A
d.	Max. Welding Current @ 100% Duty Cycle: 310 A
6.13	<b>Class of Insulation: H</b>
6.14	<b>Cooling: Forced Air</b>
6.15	<b>TIG WELDING CONTROL UNIT:</b>
i.	<b>Input:</b>
a.	Primary Voltage: 230 V
b.	Phase / Frequency: 1 phase /50 Hz
ii.	<b>Rating:</b>
a.	Welding Current DC
b.	@ 60% Duty Cycle: 300 A
c.	@ 100% Duty Cycle: 240 A
iii.	<b>Gas Pre-flow Time: 0.1- 5 Sec</b>
iv.	<b>Gas Post Flow Time: 1 – 30 Sec</b>
v.	<b>General:</b>
a.	Water Tank Capacity : 15 Litres
b.	Protection Class: IP23
c.	Mode of Operation: 2 / 4 Track
6.16	<b>TORCH:</b>
i.	<b>Max current carrying capacity</b>
a.	@ 60% Duty Cycle: 300 DC
b.	@ 100% Duty Cycle: 230 DC
6.17	<b>Type Cooling: water</b>
6.18	<b>Electrode capacity: 1.6, 2.4, 3.2 &amp; 4</b>
6.19	<b>Foot current control remote: 1 no</b>
6.20	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT – EACH SET CONTAINING FOLLOWING</b>

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : TIG WELDING EQUIPMENT		
Ref. No: Annexure 9/22		Qty : 3 Nos
Sl. No.	Description	
6.21	Argon gas cylinder fitted with double stage double gauge pressure & flow regulators mounted on a trolley	1SET
6.22	Suitable Argon Gas hose of 5 meters length	1 No.
6.33	Earthing cable and clamps of 5 meters length	1 Set
6.34	Welders cap	2 Nos.
6.35	Head shield	1 No.
6.36	Black and Plain Glass one number each	1 Set
6.37	Hand gloves and leg guard one pair each	1 Set
6.38	Chipping hammer	1 Set
6.39	Wire brush	1 No.
6.40	Container bag	1 No.
6.41	Tungsten Electrode	1 No.
6.42	Continuous welding consumables 1.6 mm dia. 20 Kg box	10 Nos.
<b>6.30</b>	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION ( EACH EQUIPMENT 1 SET)</b>	
6.31	Please Indicate the detailed list of spares with individual prices	
<b>6.40</b>	Operation/ Service/ Spare parts manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore	1 No.

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : SUBMERGED ARC WELDING		
Ref. No: Annexure 9/23		Qty : 2 Nos
Sl. No.	Description	
<b>7</b>	<b>SUBMERGED ARC WELDING:</b> Submerged Arc Welding complete unit operating on 3 Phase 400V, 50Hz, AC, diode based power source of welding current output of 1000 A along with Welding Head , mounted on suitable wheels for easy manourability as per following specifications and accessories.	
<b>7.10</b>	<b>BRIEF SPECIFICATION:</b>	
<b>7.11</b>	<b>INPUT POWER:</b>	
a.	Power supply: 400V	
b.	Phase / Frequency: 3 phase / 50 Hz	
c.	Rating @ 60% Duty Cycle: Min 54 KVA	
<b>7.12</b>	<b>OUTPUT POWER:</b>	
a.	Welding Current (Max): 1000 A	
b.	Open Circuit Voltage Range: 24 to 52 V	
c.	Max. Welding Current @ 60% Duty Cycle: 1000 A	
d.	Max. Welding Current @ 100% Duty Cycle: 800 A	
e.	Type of Insulation: F Class	
f.	Type of Cooling: Forced Air	
<b>7.13</b>	<b>WELDING HEAD:</b>	
a.	Max welding current @ 60% duty cycle: 1500 A	
b.	Max welding current @ 100% duty cycle: 1250 A	
c.	Wire Dia: 2,2.5,3,4,5 mm	
d.	Wire Speed Range: 0.5 – 4 meters per min	
<b>7.14</b>	<b>Control Unit:</b>	
i.	Input Power: 42 V / 1 phase / 50 Hz	
ii.	<b>Range of Adjustment:</b>	
a.	Vertical (Z): Min 100 mm (Motorised)	
b.	Horizontal (X): Min 100 mm (Motorised)	
c.	Horizontal (Y): Min 140 mm (Manual)	
d.	Transverse to Head Travel: 45 Degree	
e.	Parallel to Head Travel: 30 Degree	
f.	Horizontal Swing: Min 270 Degree	
g.	Standard Bore for Spool: 285 to 315 mm	
h.	Flux Hooper Capacity: 10 Kgs	
i.	Wire reel capacity: 25 Kgs.	
<b>7.20</b>	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT – EACH SET CONTAINING FOLLOWING</b>	
7.21	Set of Welding cables and Control cable each of 5 meters length (90 sq mm)	1 Set
7.22	Earthing cable and clamps of 5 meters length	1 Set
7.23	Welders cap	2 Nos.
7.24	Head shield	1 No.
7.25	Black and Plain Glass one number each	1 Set
7.26	Hand gloves and leg guard one pair each	1 Set
7.27	Chipping hammer	1 No.
7.28	Wire brush	1 No.
7.29	Container bag	1 No.
7.30	Welding consumables SAW wire of 15 kg spool	12 Nos.
7.31	Flux: 100 kgs	
7.32	Wire cutter- for cutting upto 5 mm wire	1 No.

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
<b>Item : SUBMERGED ARC WELDING</b>		
<b>Ref. No: Annexure 9/23</b>		<b>Qty : 2 Nos</b>
<b>Sl. No.</b>	<b>Description</b>	
7.33	Nozzle 3 mm	15 Nos.
7.34	Roller 3 mm	2 Nos.
<b>7.30</b>	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION ( EACH EQUIPMENT 1 SET)</b>	
7.31	Please Indicate the detailed list of spares with individual prices	
<b>7.40</b>	Operation/ Service/ Spare parts manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore	1 No.

**GAS WELDING EQUIPMENT**

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : OXY - ACETYLENE GAS WELDING EQUIPMENT		
Ref. No: Annexure 9/24		Qty : 4 Nos
Sl. No.	Description	
8.	<p><b>OXY - ACETYLENE GAS WELDING EQUIPMENT:</b>            Oxy – Acetylene gas welding equipment complete unit with oxygen and acetylene cylinders mounted on a suitable trolley with handle, each cylinder fitted with double stage double gauge pressure &amp; flow regulators, welding &amp; cutting gun with following specifications and accessories. (all accessories of the equipment shall confirm to ISI standard or equivalent).</p> <p><b>CUTTING GUN:</b>            Standard Cutting gun 450 mm length &amp; cutting angle 90 degree fitted with flash back arrestor and nozzle size 3/64 inch Suitable rubber hose of 10 meter length, ID 8 mm (inside diameter) each for oxygen and acetylene gases along with hose connectors.</p> <p><b>WELDING GUN:</b>            Standard welding gun for preheating and brazing of sheet metals fitted with flash back arrestor along with preheating tips Nos. 2,3,6,13,20&amp;30 and brazing tips Nos. 1,2,3,4,5&amp;6. Suitable rubber hoses of 10 meter length, ID 8 mm (inside diameter) each for oxygen and acetylene gases along with hose connectors.</p>	
8.10	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT - EACH SET CONTAINING FOLLOWING:</b>	
8.11	Welding Hose for oxygen, ID 8 mm & length 10 Meters	1 No.
8.12	Welding Hose for Acetylene, ID 8 mm & length 10 meters	1 No.
8.13	Hose Clips	1 Set
8.14	Set of spanners	1 Set
8.15	Hose Connectors	1 Set
8.16	Double stage double gauge regulators	1 Set
8.20	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION – ( EACH EQUIPMENT 1 SET)</b>	
8.21	Please Indicate the detailed list of spares with individual prices	
8.30	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	1 No.



Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : PORTABLE FLAME CUTTING MACHINE		
Ref. No: Annexure 9/25		Qty : 1 No
Sl. No.	Description	
9	<b>PORTABLE FLAME CUTTING MACHINE :</b> Oxy – Acetylene gas based portable flame cutting Machine / Equipment complete unit with oxygen and acetylene cylinders mounted on a suitable trolley with handle, each cylinders fitted with double stage double gauge pressure & flow regulators and portable flame cutting Machine / Equipment with following specifications and accessories. All accessories of the equipment shall confirm to ISI standard or equivalent Oxygen and acetylene cylinders mounted on a suitable trolley with handle, each cylinders fitted with double stage double gauge pressure & flow regulators – 1Set Suitable rubber hoses of 10 meter length, ID 5 mm (inside diameter) each for oxygen and acetylene gases along with hose connectors- 1 Set	
9.10	<b>BRIEF SPECIFICATION:</b>	
9.11	Input Power Supply: 230 V Single Phase, 50Hz AC	
9.12	Cutting Capacity: 100 mm thickness of mild steel	
9.13	Straight Cut: 1.8 Meters length	
9.14	Circle Cutting: 150 to 1200 mm dia	
9.15	Bevel Cutting: Upto 45 degree	
9.16	Cutting Speed: 100 to 1000 mm/ min	
9.17	Horizontal Adjustment of torch: 80 mm	
9.18	Vertical Adjustment of torch: 60 mm	
9.20	<b>ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT- EACH SET CONTAINING FOLLOWING:</b>	
9.21	Aluminum Track – 1.8 meters	1 Set
9.22	ANM Nozzles- 1/16", 3/64", 1/32" (inches)	2 Sets
9.23	Attachment for circle cutting	1 Set
9.24	Welding Hose for Oxygen, ID 5 mm and length 10 meters	1 Set
9.25	Welding Hose for Acetylene, ID 5 mm and length 10 meters	1 Set
9.26	Hose Clips	1 Set
9.27	Set of Spanners	1 Set
9.28	Hose Connectors	1 Set
9.29	Double stage double gauge regulators	1 Set
9.30	<b>SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION (EACH EQUIPMENT 1 SET)</b>	
9.31	Please Indicate the detailed list of spares with individual prices	
9.40	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	1 No.

**NOTE :** The Colour of the above Welding Machines under LOT-I shall be Himmel Blue (RAL 5015) Polyurethane Paint.

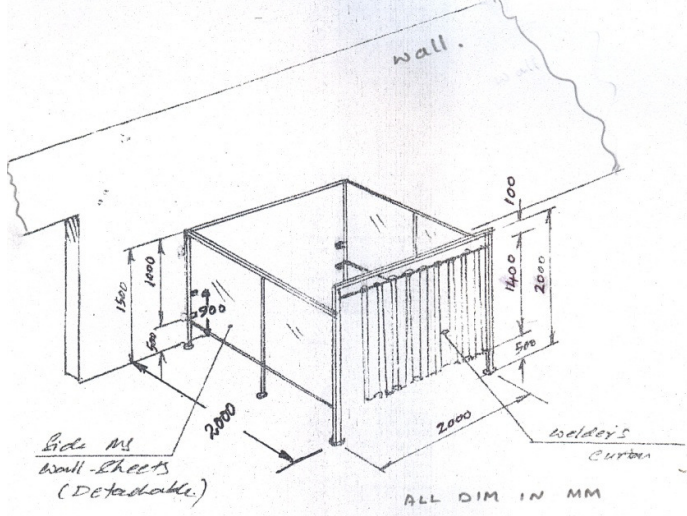
LOT 19 – Welding Booth & Table

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar

Ref. No. Sl. No. 78 of Annex 9 – Welding Booth & Table – 12 nos

Ref. No. Sl. No. 145 of Annex 4- Welding Table - 1 no

WELDING BOOTH & TABLE

Sl. No.	Item Description & Brief Specification	Qty in nos.
1	WELDING BOOTH –PORTABLE TYPE –FIBRE & WELDING TABLE	24
 <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Dismantable type</li> <li>• Powder coated – Colour soft grey</li> <li>• Set of 15 nos welding booths in 1<sup>st</sup> row, 6 nos in 2<sup>nd</sup> row and 3 nos in 3<sup>rd</sup> row having common sides.</li> <li>• Metallic shoes to have leveling facility</li> </ul> <p><b>Front Side</b></p> <ul style="list-style-type: none"> <li>• MS fabricated 40 mm Sq. tube 2 mm thick 2000 mm height with metallic shoes. Total quantity 27 nos.</li> <li>• MS cross beam 40 mm Sq. tube 2 mm thick 1920 mm long. Total quantity 24 nos.</li> <li>• 37 mm dia 2 mm thick pipe to suite welder curtain of reputed make (Dark Red) 1400 mm height &amp; 1920 mm long with rings to move freely on the pipe. Total quantity 24 nos.</li> </ul> <p><b>Rear Side</b></p> <ul style="list-style-type: none"> <li>• MS fabricated 40 mm Sq. tube 2 mm thick 1500 mm height with metallic shoes. Total quantity 27 nos.</li> <li>• Rear frames bolted to the wall, 500 mm &amp; 900 mm from floor.</li> <li>• Bolt to be provided inside the booth</li> <li>• MS cross beam 40 mm Sq. tube 2 mm thick 1920 mm long. Total quantity 24 nos.</li> </ul> <p><b>Sides</b></p> <ul style="list-style-type: none"> <li>• MS fabricated 40 mm Sq. tube 2 mm thick 1500 mm height with metallic shoes. Total quantity 27 nos.</li> <li>• MS cross beam 40 mm Sq. tube 2 mm thick 1920 mm long. Total quantity 27 nos.</li> <li>• 2 nos. 14 SWG CRCA sheet 960 X 1000 mm on both sides, removable type, 460 mm from the floor. Total quantity 27 sets</li> </ul>		

**Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar**

Ref. No. Sl. No. 78 of Annex 9 – Welding Booth & Table – 12 nos

Ref. No. Sl. No. 145 of Annex 4- Welding Table - 1 no

**WELDING BOOTH & TABLE**

Sl. No.	Item Description & Brief Specification	Qty in nos.
	<div data-bbox="337 289 954 814" data-label="Image"> </div> <p><b>Qty: 25 nos</b></p> <p><b>Features</b></p> <p>Table Size: 800 L x 600 W x 800 H mm</p> <p>Legs: 4 nos MS fabricated 40 mm sq. tube 2 mm thick with metallic shoes</p> <p>Bottom cross supports: MS fabricated 40 mm sq. tube 2 mm thick on all sides except front side</p> <p>Table Top: MS Angle iron 50 x 50 x 6 mm thick</p> <p>Table top (Left): MS sheet 600 x 400 x 10 mm thick for arc welding</p> <p>Table top (Right): Provision to place refractory bricks for gas welding</p> <p>Drawer: 1 no. 300 mm long, 400 mm deep and 150 mm height with lock and handle</p> <p>Electrode box: Size 100 mm x 150 mm with front open</p> <p>Shelf : 1 no. size 400 mm long, 600 mm deep and 300 mm height with 3 sides open</p> <p>Work holding device: 25 mm pipe adjustable for max 2000 mm height facilitating overhead welding and vertical welding.</p> <p>Knurled thumb screws: 5 nos. - M12 .</p> <p>Colour: Powder coated – Colour soft grey</p>	

## LOT 20 - SET OF WORK HOLDING DEVICES:

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Sl. No 83 of Annex 5 – 1 lot		
Sl. No 107 of Annex 6 – 1 lot		
SI No	Brief Specification	QTY
<b>A</b>	WORK HOLDING DEVICES For HMT make FN2U MACHINES with T-slot 16 mm	<b>2 sets</b>
1	FLAT STRAP CLAMPS for M16 BOLT, IS:4292	
	Size : 18 x 125	6
	Size : 18 x 160	6
2	PLAIN CLAMP for M16 Bolt, IS: 6081	
	Size: 18 x 100	6
3	FORGED T – BOLT, IS:2014	
	Size : M16 x 100	10
	Size : M16 x 125	10
4	HEAVY DUTY PLAIN WASHER for M16 BOLT, DIN : 6340	
	Size : 45 x 17 x 6	25
5	HEAVY DUTY C – WASHER for M16 BOLT, IS:4291	
	Size: 56 x 17 x 12	12
6	SUPPORTING HEIGHT PLATES	
	Plate Size:50W x 60L x 4T	6
	Plate Size:50W x 75L x 4 T	6
7	SCREW JACK WITH STEEL BODY	
	<b>Material</b> : Body and spindle – medium carbon steel, heat treated blackened.	
	<b>Threads</b> : Trapezoidal	
	Stopper provided to avoid accidental dis-engagement of spindle during operation.	
	(a) Range : 50 – 70mm	4
	(b) Range: 70 – 100mm	4
8	Nut – M16 - Toughened	20
<b>B</b>	WORK HOLDING DEVICES For VMC MACHINES with T-slot 14 mm	<b>2 sets</b>
1	FLAT STRAP CLAMPS for M14 BOLT, IS:4292	
	Size : 16 x 125	4
	Size : 16 x 160	4
2	PLAIN CLAMP for M14 Bolt, IS: 6081	
	Size: 16 x 100	4
3	FORGED T – BOLT, IS:2014	
	Size : M14 x 100	6
	Size : M14 x 125	6
4	HEAVY DUTY PLAIN WASHER for M14 BOLT, DIN : 6340	
	Size : 45 x 15 x 6	12
5	HEAVY DUTY C – WASHER for M14 BOLT, IS:4291	
	Size: 56 x 15 x 12	6
6	SUPPORTING HEIGHT PLATES	
	Plate Size:50W x 60L x 4T	4
	Plate Size:50W x 75L x 4 T	4
7	EXTENSION NUT suitable for M14.	
	Size: M14 x 48L	6
8	Nut – M14 - Toughened	12
<b>C</b>	WORK HOLDING DEVICES For Drilling, with T-slot 12 mm	<b>2 sets</b>
1	FLAT STRAP CLAMPS for M12 BOLT, IS:4292	
	Size : 14 x 100	4
	Size : 14 x 125	4
2	PLAIN CLAMP for M12 Bolt, IS: 6081	
	Size: 14 x 80	4
3	FORGED T – BOLT, IS:2014	
	Size : M12 x 100	6
	Size : M12 x 125	6
4	HEAVY DUTY PLAIN WASHER for M12 BOLT, DIN : 6340	
	Size : 35 x 13 x 6	10
5	HEAVY DUTY C – WASHER for M12 BOLT, IS:4291	
	Size: 40 x 13 x 9	10

## Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar

Sl. No 83 of Annex 5 – 1 lot

Sl. No 107 of Annex 6 – 1 lot

SI No	Brief Specification	QTY
6	SUPPORTING HEIGHT PLATES	
	Plate Size:50W x 60L x 4T	6
	Plate Size:50W x 75L x 4 T	6
7	EXTENSION NUT suitable for M12.	
	Size: M12 x 38L	6
8	Nut – M12 - Toughened	12

## LOT 21 - Set of Tool Holders for CNC Machines

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar			
Sl. No.	Annex. Ref.	Description / Brief Specification	Qty In Nos.
	Sl. No 106 of Annex 6		1 lot
	<b>SET OF Tool Holders for CNC Machines</b>		
1	RD 16-BT40 Collet Chuck Holder with retention knob		4
2	RD 25-BT40 Collet Chuck Holder with retention knob		4
3	BT 40 Drilling Chuck Holder with retention knob		4
4	RD 25 Collets (14 Nos.)		1set
5	RD 16 Collets (10 Nos.)		1set
6	Tap collets RD16		1 set
7	Tap collets RD25		1 set
8	Key less Drill Chuck		1
9	BT40 Shell End Mill Adaptor		1
10	BT40 Side Lock Holder dia 8.0 mm with retention knob		1
11	BT40 Side Lock Holder dia 10.0 mm with retention knob		1

## Lot-22 Work Holding Devices – Welding

<b>Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar</b>			
Description : Set of work holding clamps and fixtures for welding			
Agreement Ref. / Sl. No. Sl. No 87 of Annex 9			Qty – 1 lot
A	Arc welding Clamp (for Earth Clamp)	6" "U" soft Clamp with one side M12 hexagonal bolt to tighten earth wire.	12 nos.
B	"C" Clamps	6" drop forged steel body with ribs and fine thread screw. Colour Auto black	12 nos.
C	Flat Tongs	18"	12 nos.
D	Half Round Tongs	18"	12 nos.
E	Portable Hand Vice	150 mm	12 nos.
F	Drilling Machine Vice	6" Heavy Duty	2 nos.
G	Anvil	50 Kgs, solid steel castings, hardened and tempered on working faces and corners	2 nos.
H	Swage Block (Cast Iron)	12" x 12" X 4" With stand of 1 feet height	2 nos.
I	Parallel Clamps	Jaw length 250 mm and jaw opening 200 mm, hardened, tempered & ground faces. Blackened	12 nos.

## Lot-23 SOFTWARE FOR DESIGN

Indo Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Software Sl. No. 9 of Annex-1- Qty 15 nos Sl. No. 22 of Annex-6 – Qty 1 no		Qty: 16 nos
Sl. No.	Feature	Specifications
Sl. No. 9 of Annex-1	Software for designing & drafting	Autodesk AutoCAD 2018 for Civil, Architecture, Mechanical, Education-Annual Subscription
Sl. No. 22 of Annex-6	Software	Autodesk AutoCAD 2018 for Civil, Architecture, Mechanical, Education-Annual Subscription



# 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	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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 ANNEXURE -1 of Section V-Commercial for Lots-3, 12, 13,14,15,16,17&18 only is amended as per the continued pages of this corrigendum-1**

All other terms and condition remains unchanged

For HMT (International) Limited,

Y K Vaish  
JT. GENERAL MANAGER, PROJECTS

Contd...

**LOT - 3 Jib 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. 74 of Annex 6	Jib Crane	3T	1		
2	Sl. No. 50 of Annex 7	Jib Crane	3T	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.
- 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 – 12 Automobile Items**

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	1/7	Cut section model of demonstration chassis working with electricals – Two wheeler Petrol vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
2	2/7	Cut section model of demonstration chassis working with electricals – MPFI system vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
3	3/7	Cut section model of 4 cylinder 4 stroke petrol engine working with electricals- Carburetor vehicle	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
4	4/7	Cut section model of 4 cylinder 4 stroke diesel engine working with electricals-LCV	Engine, Transmission system, Fuel system, Exhaust system, Lubrication system, Suspension system, Braking system, Steering mechanism, Electrical system.	1		
5	5/7	Cut section model of steering gear box with wheel and axle:	Rack and pinion type, worm and roller type and re-circulating ball type	1		
6	6/7	Cut section model of Airbrake system		1		
7	7/7	Demonstration board of electronic ignition system		1		
8	8/7	Cut section model of power window with one door		1		
9	9/7	Cut section model of automatic transmission of car		1		

10	10/7	Cut section models of different automobile parts set		1		
11	11/7	Cut section model of two wheeler engine and other parts	Petrol engine	1		
12	12/7	Model mock layout of car electrical system		1		
13	13/7	Two wheeler petrol engine	Brand new in working condition with all fittings on castor wheels	1		
14	14/7	Four wheeler petrol MPFI engine	Brand new in working condition with all fittings on castor wheels	1		
15	15/7	CRDI Diesel engine	Brand new in working condition with all fittings on castor wheels	1		
16	16/7	Tyre changer	Max tyre dia 950 mm	1		
17	17/7	Automatic tyre inflator	0-170 psi	1		
18	18/7	Low raise lift	Height 120 – 1000 mm	1		
19	19/7	Two post lift	3200 kgs	1		
20	20/7	Four post lift	With flat runways – 3500 kgs	1		
21	21/7	Petrol compression tester		1		
22	22/7	Mechanical wheel alignment		1		
23	23/7	Diesel injector cleaning machine		1		
24	24/7	Hydraulic bearing puller		1		
25	25/7	Air compressor pressure gauge		1		
26	26/7	Carburetor repair tool kit		1		
27	27/7	Distributor tester		1		
28	28/7	Cylinder gauge, bore dial gauge with std. accessories	50-150 mm	1 set		
29	29/7	Tachometer	Counting type	1		
30	30/7	Connecting rod alignment fixture		1		
31	31/7	Puller set universal bearing and bushes		1 set		
32	32/7	Piston ring compressor		1		
33	33/7	Valve key inserter		1		
34	34/7	Electrical Test Bench		1		
35	36/7	Injector cleaner & Tester		1		
36	37/7	Battery charger		1		
37	38/7	Battery tester	Without printer	1		
38	39/7	Garage Jack, Hydraulic	Cap. 2.5 ton	1		
39	40/7	Hydraulic Bottle Jack	2T	1		

40	41/7	Hyd Garage press- Manually operated	Cap. 50 ton	1	
41	42/7	Torque wrench	Ratchet type	1	
42	43/7	Cylinder Liner extractor		1 set	
43	48/7	Steel Creeper	1030x415x160mm	10	
44	98/7	Double open ended ignition spanner set of 5	0 to 9 mm	5	
45	100/7	Spanner Ring off-set	SAE	4 lots	
46	101/7	Spanner of spark plug	14 mm	10	
47	102/7	Magneto spanner set of 8 spanners		10	
48	109/7	Tray cleaning	45 x 30 cm	20	
49	111/7	Lifter, Valve Spring		5	
50	112/7	Extractor, Stud 'Ezy out' type		5	
51	116/7	Distributor for petrol	Brand new	1	
52	117/7	Carburetor (two different types)	Brand new	1	
53	118/7	Water Pump and Oil Pump – 2 each	Brand new	1 set	
54	119/7	Tachometer Digital		10	
55	120/7	Jack Hydraulic (Trolley type)		3	
56	121/7	Tester spark plug	NEON type	5	
57	122/7	Lifting jack, screw type		3	
58	123/7	Coil spring compressor for suspension spring		1	
59	124/7	Hot patch clamp unit		2	
60	125/7	High rate discharge tester		1	
61	127/7	Pneumatic tools		1 set	
62	128/7	Automobile spray gun		4	
63	129/7	Impact Screw Driver		2 set	
64	134/7	Timing light	xenon	5	
65	135/7	Battery load tester		1	
66	136/7	Continuity meter		1	
67	137/7	Fuel injection pump (Diesel) inline	Brand new	1	
68	138/7	Fuel injection pump (Diesel) rotary	Brand new	1	
69	139/7	Set of governors for diesel pump	Brand new	1	
70	140/7	Petrol nozzle		1 set	

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>				

**# The above Cost shall include E&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 & fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).

**\* Total cost of equipment including I & C in Indian Rupees (in words):**

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.
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**The prices quoted should be most competitive**

**LOT – 13 Automobile Advanced items**

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 Advanced of Annex 7	Fully operational Multi Point Injection Petrol Engine	Complete with Fuel, Ignition, Cooling, Exhaust Systems, Starting and Charging System.	1		
2	Sl. No. 2 Advanced of Annex 7	Fully Operational Single Point Injection Petrol Engine	Complete with Fuel, Ignition, Cooling and Exhaust Systems.	1		
3	Sl. No. 3 Advanced of Annex 7	Fully operational Diesel Engine	Cooling, Turbo and Exhaust Systems, Starting and Charging System – (Volkswagen 1.9 Turbo Diesel Engine Complete with BOSCH Electronic Diesel Control System, fitted with manufactures Diagnostic socket 16Pin)	1		
4	Sl. No. 4 Advanced of Annex 7	Fully operational Diesel Engine,	complete with Fuel, Cooling, Turbo and Exhaust System, Starting and Charging system – (Common Rail Turbo Diesel Engine, Complete Bosch or Siemens Electronic Diesel Control System fitted with manufactures Diagnostic socket 16Pin)	1		
5	Sl. No. 5 Advanced of Annex 7	Sets of all sensors and actuators	Used for modern Engines.	2		
6	Sl. No. 6 Advanced of Annex 7	Simulation of Central Door Locking	With Alarm system and power windows including real working on car door.	1		
7	Sl. No. 7 Advanced of Annex 7	Complete Set of Alarm System		1		
8	Sl. No. 8 Advanced of Annex 7	Complete set of ABS Components		1		
9	Sl. No. 9 Advanced of Annex 7	Complete set of Airbag Components		1		
10	Sl. No. 10 Advanced of Annex 7	Air Compressor	Reciprocating	1		
11	Sl. No. 11 Advanced of Annex 7	Hand held Diagnostic Tester		1		
12	Sl. No. 12 Advanced of Annex 7	Wireless Diagnostic tester include Laptop		1		

13	Sl. No. 13 Advanced of Annex 7	Fully operational ESP Trainer.	Complete with braking circuit and manufactured using original vehicle components. Simulation of wheel lock to active the ABS. pressure gauges indicate individual front and rear line pressures at each wheel. Brake pedal kick back can be observed. Diagnostic socket fitted for the connection of fault code readers	1		
14	Sl. No. 14 Advanced of Annex 7	Fully operated automotive automatic Air Condition System Simulator		1		
15	Sl. No. 15 Advanced of Annex 7	Automotive special Multi Meter		1		
16	Sl. No. 16 Advanced of Annex 7	3D wheel Alignment		1		
17	Sl. No. 17 Advanced of Annex 7	4 Gas Analyzer		1		
18	Sl. No. 18 Advanced of Annex 7	Common Rail Injector Tester		1		
19	Sl. No. 19 Advanced of Annex 7	Lift for wheel Alignment		1		
20	Sl. No. 20 Advanced of Annex 7	Fully operated steering system with all component		1		
21	Sl. No. 21 Advanced of Annex 7	Fully Automatic 'AIRCO' service center with integrated		1		
22	Sl. No. 22 Advanced of Annex 7	Sensors Simulator		1		
23	Sl. No. 23 Advanced of Annex 7	Eprom reader		1		
24	Sl. No. 24 Advanced of Annex 7	Immobilizer Key Programmer		1		
25	Sl. No. 35 of Annex 7	Sparkplug Cleaner & Tester		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>					
<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	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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**The prices quoted should be most competitive**

**LOT – 14 Ultrasonic crack detector**

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. 29 of Annex 9	Ultrasonic crack detector		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

SI 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.

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- VALUES should be both in figures and Words.

**The prices quoted should be most competitive**

**LOT – 15 Computer Work station**

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-1	Computers	Latest version	20		
2	Sl. No. 18 of Annex-6	Computers for CNC & Tool design	Latest	20		
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

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**LOT – 16 Computer, Laptop & software**

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-10	Desktops	Latest	20		
2	Sl. No. 3 of Annex 10	Laptops		10		
3	Trg Matl Annex 11	Laptop computer		30		
4	Sl. No 16.02 of Annex 10	MS office – Home & Student with media		40		
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.

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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**

- 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 – 17 Computer peripherals**

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- 1	Server		1		
2	Sl. No. 19 of Annex-6	Server		1		
3	Sl. No. 1 of Annex-10	Server		1		
4	Sl. No. 5 of Annex- 1	UPS for server		1		
5	Sl. No. 19 of Annex-6	UPS for server		1		
6	Sl. No. 10 of Annex-10	Smart UPS with 16 Batteries		1		
7	Sl. No. 11 of Annex 10	Portable Hard Disks		10		
8	Sl. No. 37 of Annex-3	Interactive White Board		1		
9	Sl. No. 175 of Annex-8	Interactive White Board		1		
10	Sl. No. 9 of Annex-10	Interactive White Board		2		
11	Sl. No. 6 of Annex-1	Networking Hardware set		1 set		
12	Sl. No. 22 of Annex-2	LCD Projector with Screen & Wall mount		1		
13	Sl. No. 8 of Annex-10	LCD Projector with Screen & Wall mount		1		
14	Trg Matl of Annex 11	LCD Projector with Screen & Wall mount		10		
15	Sl. No. 5 of Annex-10.	Wireless Access Point		2 nos		
16	Sl. No. 4 of Annex-10	Wireless Router		1		
17	Sl. No. 6 of Annex-10	Wireless LAN Card		22		
18	Trg Matl of Annex-11	Photo Copier		10		
19	Sl. No. 11 of Annex-1	Plotter		1		
20	Sl. No. 24 of Annex 6	Plotter		1		
21	Sl. No. 7 of Annex-10	Colour Laser Networking Printer		1		
22	Sl. No. 10 of Annex-1	Laser Networking Printer		1		
23	Sl No 23 of Annex-6	Laser Networking Printer		1		
24	Sl. No. 16 of Annex-10	Software (Academic Version)		1 lot		
		Windows Server Standard 2016 R2		1		
		MS SQL Server Standard 2016		1		
		Visual Studio 2017 professional SNGL		1		
		Corel DRAW Graphics Suite X8-Single user license		1		
		CorelDraw Graphics Suite X8 Maintenance (2 yrs)		1		
		Adobe Captivate for Teams-Annual Subscription		1		
		Adobe CS5.5 master collection		1		
		Autodesk 3ds Max 2015 Education Annual Subscription		1		
		Kaspersky internet security 10 users Box pack with 1 year subscription		4		
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>					

**# The above Cost shall include E&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 & fro Airfare, Boarding expenses, Travel Insurance and incidental expenses to be borne by the supplier).

**\* Total cost of equipment including I & C in Indian Rupees (in words):**

**\*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	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**

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 – 18 Welding 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. 17 of Annex 9	Welding Transformer	40-300A	4		
2	Sl. No. 18 of Annex 9	Welding Transformer	40-400A	4		
3	Sl. No. 19 of Annex 9	Welding Rectifier	600A	2		
4	Sl. No. 20 of Annex 9	Spot welding machine		1		
5	Sl. No. 21 of Annex 9	MIG welding equipment	60-400A	3		
6	Sl. No. 22 of Annex 9	TIG welding equipment	40-400A	3		
7	Sl. No. 23 of Annex 9	Submerged arc welding	1000A	2		
8	Sl. No. 24 of Annex 9	Oxy-acetylene gas welding equipment		4		
9	Sl. No. 25 of Annex 9	Portable flame cutting machine		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:**

- 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**

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

**The prices quoted should be most competitive**



**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: 18 - 12 - 2018)*

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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-1.*

**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.3***(dt: 21 - 12 - 2018)*

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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, 3, 4, 5, 7, 12 to 17, 19, 20, 21, 22 & 23 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.4***(dt: 31 - 12 - 2018)*

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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, 7, 12 to 17, 19, 20, 21, 22 & 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.5

(dt: 10 - 1 - 2019)

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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, 7, 12 to 17, 19, 20, 21, 22 & 23 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.6***(dt: 21 - 1 - 2019)*

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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, 7, 13 to 17, 19 to 23 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.7

(dt: 01 - 02 - 2019)

Sl. #	LOT	ITEM
1	LOT - 1	3D Engraving machine
2	LOT - 2	Hydraulic pipe bending machine
3	LOT - 3	Jib crane
4	LOT - 4	Misc. items
5	LOT - 5	HSS Tools
6	LOT - 6	Carbide tools
7	LOT - 7	Screw compressor
8	LOT - 8	Electrical panels
9	LOT - 9	Electrical Meters
10	LOT - 10	Electrical Appliances
11	LOT - 11	Electronic trainers
12	LOT - 12	Automobile equipment

Sl. #	LOT	ITEM
13	LOT - 13	Advanced Automobile equipment
14	LOT - 14	Ultrasonic crack detector
15	LOT - 15	Computer-Workstation
16	LOT - 16	Computer desk top, Laptop, software etc
17	LOT - 17	Computer peripherals
18	LOT - 18	Welding equipment
19	LOT - 19	Welding booths & tables
20	LOT - 20	Work Holding Devices
21	LOT - 21	Set of Tool Holders for CNC M/cs
22	LOT - 22	Set of work holding clamps and fixtures
23	LOT - 23	Software for Design

**TENDER NO: HMTI/PROJ/IMITC/MONYWA/S002/2018 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 to 17, 19 to 23 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