

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	Circular Saw Machine & Portable Disc Sander
2	LOT - 2	Band Saw machine
3	LOT - 3	Wood Lathe & Bench Miller
4	LOT - 4	Pattern Lathe & Pattern Milling machine
5	LOT - 5	Planer, Sharpener, Top spindle & Router machine
6	LOT - 6	Sand Disc Machines & Sanders
7	LOT - 7	Dust collector & Planer machine
8	LOT - 8	Drilling machines

Sl. #	LOT	ITEM
9	LOT - 9	Electrical Machine Trainers
10	LOT - 10	Electrical Industrial Trainers
11	LOT - 11	Hand Tools
12	LOT - 12	Set of Hand Tools
13	LOT - 13	Tool Kits
14	LOT - 14	Miscellaneous items
15	LOT - 15	Oxy-Acetylene welding set
16	LOT - 16	Precision Surface Grinder
17	LOT - 17	Foot Boards & Pallets
18	LOT - 18	Power Tools

TENDER NO: HMTI/PROJ/IMITC/MONYWA/S003/2018 Dated 28-12-2018

CLOSING ON: 14-01-2019, TIME 10.30 HRS

TECHNICAL BID OPENING ON: 14-01-2019, 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 to 10, 15 & 16 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, E-mail: projects@hmti.co.in

INDEX

SECTION I : INVITATION FOR BIDS(IFB)

1. Invitation
2. Contact Information
3. Two Bid System
4. Date of Submission and opening of Technical Bid

SECTION II: INSTRUCTIONS TO BIDDERS (ITB)

1. Definitions and Interpretation
2. Compliance of Requirements
3. Place of Delivery of Supplies
4. Criteria for pre qualification of Bidder
5. Cost of Bid documents
6. Earnest Money / Bid Guarantee
7. Period of Validity of Bids
8. Deadlines for submission of bids
9. Opening and Evaluation of Bids
10. Comparison of Bids
11. Award Criteria
12. HMT(I) right to amend scope of work
13. Corrupt & fraudulent practices
14. Interpretation of the clauses in the tender document
15. General

SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)

1. Execution
2. Colour
3. Electricals
4. Delivery period
5. Inspection & Acceptance
6. Re-Inspection
7. Packing
8. Port of Shipment / Discharge
9. Freight & Insurance
10. Consignee
11. Invoice to
12. Price
13. Payment Terms
14. Penalty for Delayed Supplies
15. Clearance for Despatch
16. Name & Address of the Shipping Agent
17. Technical Documents
18. Bought Outs
19. Rejection & Risk
20. Performance Bank guarantee
21. International Warranty
22. Erection & Commissioning
23. Arbitration
24. Jurisdiction
25. Force Majeure

SECTION IV: SCHEDULE OF REQUIREMENTS / SCOPE OF SUPPLY (SR)

SECTION V: COMMERCIAL

- | | |
|--------------|---|
| Annexure – 1 | Price Schedule |
| Annexure – 2 | Proforma for statement of deviations from Tender conditions |
| Annexure – 3 | Proforma for Commercial details & previous experience |
| Annexure – 4 | Proforma for Performance Bank Guarantee |
| Annexure – 5 | Proforma for Vendor Appraisal |
| Annexure – 6 | Proforma for Vendor Registration |
| Annexure – 7 | Proforma for Bank Guarantee for Bid Guarantee |
| Annexure – 8 | Quality and Packing details |
| Annexure – 9 | Proforma for Manufacturer Authorization Form |

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	Circular Saw Machine & Portable Disc Sander
2	LOT - 2	Band Saw machine
3	LOT - 3	Wood Lathe & Bench Miller
4	LOT - 4	Pattern Lathe & Pattern Milling machine
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15	LOT - 15	Oxy-Acetylene welding set
16	LOT - 16	Precision Surface Grinder
17	LOT - 17	Foot Boards & Pallets
18	LOT - 18	Power Tools

- HMT(I) invites sealed bids from eligible bidders for the Supplies as above with details listed in Section IV.
For the Lots : 1 to 10, 15 & 16 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

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	Turnover in Rs.	
LOT - 1	10,00,000	(Ten Lakh Rupees only)
LOT - 2	91,00,000	(Ninety One Lakh Rupees only)
LOT - 3	10,00,000	(Ten Lakh Rupees only)
LOT - 4	20,00,000	(Twenty Lakh Rupees only)
LOT - 5	5,00,000	(Five Lakh Rupees only)

LOT - 6	10,00,000	(Ten Lakh Rupees only)
LOT - 7	5,00,000	(Five Lakh Rupees only)
LOT - 8	5,00,000	(Five Lakh Rupees only)
LOT - 9	1,42,00,000	(One crore Forty Two Lakh Rupees only)
LOT - 10	60,00,000	(Sixty Lakh Rupees only)
LOT - 11	60,00,000	(Sixty Lakh Rupees only)
LOT - 12	1,04,00,000	(One crore Four Lakh Rupees only)
LOT - 13	60,00,000	(Sixty Lakh Rupees only)
LOT - 14	10,00,000	(Ten Lakh Rupees only)
LOT - 15	5,00,000	(Five Lakh Rupees only)
LOT - 16	40,00,000	(Forty Lakh Rupees only)
LOT - 17	40,00,000	(Forty Lakh Rupees only)
LOT - 18	5,00,000	(Five 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	EMD in Rs.	
LOT - 1	5,000	(Two Thousand Rupees only)
LOT - 2	61,000	(Sixty One Thousand Rupees only)
LOT - 3	10,000	(Ten Thousand Rupees only)
LOT - 4	18,000	(Eighteen Thousand Rupees only)
LOT - 5	4,000	(Four Thousand Rupees only)
LOT - 6	9,000	(Nine Thousand Rupees only)
LOT - 7	2,000	(Two Thousand Rupees only)
LOT - 8	2,000	(Two Thousand Rupees only)
LOT - 9	95,000	(Ninety Five Thousand Rupees only)
LOT - 10	49,000	(Forty Nine Thousand Rupees only)
LOT - 11	35,000	(Thirty Five Thousand Rupees only)
LOT - 12	69,000	(Sixty Nine Thousand Rupees only)
LOT - 13	33,000	(Thirty Three Thousand Rupees only)
LOT - 14	10,000	(Ten Thousand Rupees only)
LOT - 15	3,000	(Three Thousand Rupees only)
LOT - 16	30,000	(Thirty Thousand Rupees only)
LOT - 17	28,000	(Twenty Eight Thousand Rupees only)
LOT - 18	1,000	(One Thousand Rupees only)

- **Total Earnest Money Deposit to bid for all the Lots is Rs. 4,64,000/- (Rupees Four Lakh Sixty Four 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. **However, the bidders registered with NSIC will be exempted from payment of Tender Fee on submission of Valid Registration Certificate.**
- 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:	MAHBINBBGL

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.
- o 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.
- o **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: 14th January, 2019 up to 10.30 hrs. Technical bids will be opened on 14th January, 2019 at 11.00 hrs in the Board room of HMT(I) office, Bangalore.

END OF SECTION I

SECTION II- INSTRUCTIONS TO BIDDERS (ITB)

<p>1</p>	<p>Definitions and Interpretation The “HMT(I)” / “BUYER” means: HMT(International) Limited, No.59, Bellary Road, Bangalore-560 032. The “Supplier” means any firm/institute/company to whom the contract is awarded. “SITE” means “Indo-Myanmar Industrial Training Centre” (IMITC), Monywa, Myanmar, where the supplies are required to be supplied. “PROJECT” means “Setting up of Indo-Myanmar Industrial Training Centre” (IMITC), Monywa, Myanmar.</p>																																																									
<p>2 2.1</p>	<p>Compliance of Requirements The supplies offered should be in accordance with the stipulated requirements in the “Scope of Supply”. The bidder shall indicate his compliance or non-compliance against each of the requirements.</p>																																																									
<p>3</p>	<p>Place of Delivery of supplies: All supplies are to be delivered to HMT(I)’s shipping agent at Chennai Port as per the instructions given by HMT(I) at the time of dispatch.</p>																																																									
<p>4</p>	<p>Criteria for pre qualification of Bidder The Bidder shall satisfy the following prequalification criteria: The Bidder shall provide satisfactory documentary evidence acceptable to HMT(I) to show that:</p>																																																									
<p>4.1</p>	<p>The Bidder’s annual turnover (average) is at least as indicated below in the last three financial years. The Bidders should furnish audited accounts for previous 3 years.</p> <table border="1" data-bbox="475 615 1243 1381"> <thead> <tr> <th>LOT</th> <th colspan="2">Turnover in Rs.</th> </tr> </thead> <tbody> <tr> <td>LOT - 1</td> <td>10,00,000</td> <td>(Ten Lakh Rupees only)</td> </tr> <tr> <td>LOT - 2</td> <td>91,00,000</td> <td>(Ninety One Lakh Rupees only)</td> </tr> <tr> <td>LOT - 3</td> <td>10,00,000</td> <td>(Ten Lakh Rupees only)</td> </tr> <tr> <td>LOT - 4</td> <td>20,00,000</td> <td>(Twenty Lakh Rupees only)</td> </tr> <tr> <td>LOT - 5</td> <td>5,00,000</td> <td>(Five Lakh Rupees only)</td> </tr> <tr> <td>LOT - 6</td> <td>10,00,000</td> <td>(Ten Lakh Rupees only)</td> </tr> <tr> <td>LOT - 7</td> <td>5,00,000</td> <td>(Five Lakh Rupees only)</td> </tr> <tr> <td>LOT - 8</td> <td>5,00,000</td> <td>(Five Lakh Rupees only)</td> </tr> <tr> <td>LOT - 9</td> <td>1,42,00,000</td> <td>(One crore Forty Two Lakh Rupees only)</td> </tr> <tr> <td>LOT - 10</td> <td>60,00,000</td> <td>(Sixty Lakh Rupees only)</td> </tr> <tr> <td>LOT - 11</td> <td>60,00,000</td> <td>(Sixty Lakh Rupees only)</td> </tr> <tr> <td>LOT - 12</td> <td>1,04,00,000</td> <td>(One crore Four Lakh Rupees only)</td> </tr> <tr> <td>LOT - 13</td> <td>60,00,000</td> <td>(Sixty Lakh Rupees only)</td> </tr> <tr> <td>LOT - 14</td> <td>10,00,000</td> <td>(Ten Lakh Rupees only)</td> </tr> <tr> <td>LOT - 15</td> <td>5,00,000</td> <td>(Five Lakh Rupees only)</td> </tr> <tr> <td>LOT - 16</td> <td>40,00,000</td> <td>(Forty Lakh Rupees only)</td> </tr> <tr> <td>LOT - 17</td> <td>40,00,000</td> <td>(Forty Lakh Rupees only)</td> </tr> <tr> <td>LOT - 18</td> <td>5,00,000</td> <td>(Five Lakh Rupees only)</td> </tr> </tbody> </table>	LOT	Turnover in Rs.		LOT - 1	10,00,000	(Ten Lakh Rupees only)	LOT - 2	91,00,000	(Ninety One Lakh Rupees only)	LOT - 3	10,00,000	(Ten Lakh Rupees only)	LOT - 4	20,00,000	(Twenty Lakh Rupees only)	LOT - 5	5,00,000	(Five Lakh Rupees only)	LOT - 6	10,00,000	(Ten Lakh Rupees only)	LOT - 7	5,00,000	(Five Lakh Rupees only)	LOT - 8	5,00,000	(Five Lakh Rupees only)	LOT - 9	1,42,00,000	(One crore Forty Two Lakh Rupees only)	LOT - 10	60,00,000	(Sixty Lakh Rupees only)	LOT - 11	60,00,000	(Sixty Lakh Rupees only)	LOT - 12	1,04,00,000	(One crore Four Lakh Rupees only)	LOT - 13	60,00,000	(Sixty Lakh Rupees only)	LOT - 14	10,00,000	(Ten Lakh Rupees only)	LOT - 15	5,00,000	(Five Lakh Rupees only)	LOT - 16	40,00,000	(Forty Lakh Rupees only)	LOT - 17	40,00,000	(Forty Lakh Rupees only)	LOT - 18	5,00,000	(Five Lakh Rupees only)
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	<p>Bidder who does not submit the above required information along with documentary evidence at the time of bidding; their bid will be rejected.</p>																																																									
<p>5</p>	<p>Cost of bid documents</p>																																																									
<p>5.1</p>	<ul style="list-style-type: none"> o The cost of bid document is Rs 2,500.00 (Rupees Two Thousand Five hundred only). o 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. o If the documents are purchased from HMT (International) Limited, copy of the receipt for payment of cost of bid documents shall be kept along with the Technical bid documents in Envelope –I. o 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. 																																																									

SECTION II- INSTRUCTIONS TO BIDDERS (ITB)

o If the cost of bid document is not paid before opening of the Technical bid, the bids will be rejected straightaway/ summarily.

6 Earnest Money Deposit

6.1 Earnest Money Deposit for amount as stipulated below shall accompany Technical bid documents of tender.

LOT	EMD in Rs.	
LOT - 1	5,000	(Two Thousand Rupees only)
LOT - 2	61,000	(Sixty One Thousand Rupees only)
LOT - 3	10,000	(Ten Thousand Rupees only)
LOT - 4	18,000	(Eighteen Thousand Rupees only)
LOT - 5	4,000	(Four Thousand Rupees only)
LOT - 6	9,000	(Nine Thousand Rupees only)
LOT - 7	2,000	(Two Thousand Rupees only)
LOT - 8	2,000	(Two Thousand Rupees only)
LOT - 9	95,000	(Ninety Five Thousand Rupees only)
LOT - 10	49,000	(Forty Nine Thousand Rupees only)
LOT - 11	35,000	(Thirty Five Thousand Rupees only)
LOT - 12	69,000	(Sixty Nine Rupees only)
LOT - 13	33,000	(Thirty Three Thousand Rupees only)
LOT - 14	10,000	(Ten Thousand Rupees only)
LOT - 15	3,000	(Three Thousand Rupees only)
LOT - 16	30,000	(Thirty Thousand Rupees only)
LOT - 17	28,000	(Twenty Eight Thousand Rupees only)
LOT - 18	1,000	(One Thousand Rupees only)

- Total Earnest Money Deposit to bid for all the Lots is Rs. 4,64,000/- (Rupees Four Lakh Sixty Four Thousand Only)

The Earnest Money Deposit shall be in a crossed Bank Draft/Digital Transfer in favour of HMTI (International) Ltd, Payable at Bangalore. **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.**

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.

7 Period of validity of bids

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 clarifications, if any, shall be furnished by Bidder within one week's time.

8 Deadlines for submission of bids

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

SECTION II- INSTRUCTIONS TO BIDDERS (ITB)	
	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.
9	Opening of Commercial bids by HMT(I)
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.
10	Comparison of Bids
	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.
11	Award Criteria
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.
12	HMT(I)'s Right to amend Scope of Supplies
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.
13	Corrupt or Fraudulent Practices.
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.
14	Interpretation of the clauses in the Tender Document / Contract Document
	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.
15	General
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

SECTION II- INSTRUCTIONS TO BIDDERS (ITB)	
	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.
End of SECTION-II	

SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)	
1	Execution: Metric System
2	Colour : As specified in the Technical Specifications.
3	Electricals: Main supply: 400 V, 3 Ph, 50Hz AC / 230 V, 1 Ph, 50Hz AC Supply
4	Delivery period for supplies: F.O.R Chennai Port within 8 weeks from the date of purchase order. Delivery is the essence of the Contract. If there is delay penalty as per clause 14 is applicable.
5	<p>Inspection, Re inspection and Acceptance:</p> <p>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>Re-Inspection:</p> <p>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>Packing:</p> <p>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.</p> <p>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.</p> <p>Packing to be made in the presence of HMT(I) inspection engineers.</p>
8	Port of Shipment and Discharge: Chennai Port and Port Yangon, Myanmar.
9	<p>Freight & Insurance:</p> <p>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.</p>
10	Consignee: Consignee will be intimated later
11	Invoice to : HMT (International) Limited, 59, Bellary Road, Bangalore – 560 032, India TIN NO. 29760097661/GST No. 29AAACH8197C1ZD. A/c. IMITC MONYWA, MYANMAR.
12	Price: The price shall be F.O.R Chennai Port and considered firm and no escalation will be permitted.
13	<p>Payment Terms for supplies:</p> <ul style="list-style-type: none"> • 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. • 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.
14	<p>Penalty for delayed Supply and Services:</p> <p>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>Clearance for Despatch:</p> <p>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</p>

	shipping agent with out any transshipment.
16	Name & Address of the Shipping Agent : Will be informed at the time of dispatch clearance by HMT(I).
17	<p>Technical Documents: 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"> ○ 2 Sets of Manuals along with the machine / equipment ○ 1 set Manual to HMT(I), Bangalore ○ Two copies of Electrical wiring drawings (along with the machine / equipment) ○ Instructions for commissioning (One copy along with the machine / equipment) and one copy to HMT(I) ○ Final Test & Inspection Report (along with the machine / equipment)
18	<p>Bought Outs: 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 & TELEMCHANIC etc.,</p>
19	<p>Rejection & Risk: 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>Performance Bank Guarantee (PBG): 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 & 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 & Commissioning. Performance Bank Guarantee for 10% of the FOR price for the supplies value is required for the Lots mentioned.</p>
21	<p>International Warranty: 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 & 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>Installation for LOTS – 1 to 10, 15 & 16 only The supplier shall depute, the required technical personnel for carrying out installation and providing training to the customer's personnel in operation & maintenance of items in LOTS– <u>1 to 10, 15 & 16 only</u> at project site in Myanmar.</p> <ul style="list-style-type: none"> ○ 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. ○ The supplier shall depute their personnel within 15 days from the date of intimation of readiness at project site in Myanmar. ○ All necessary tooling, instruments etc., which are required for installation will be carried by the supplier ○ Necessary tools, fixtures, instruments, trail materials, consumables etc., for installation to be sent along with the items. ○ 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.
23	<p>Arbitration: 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	Jurisdiction:

	The disputes, legal matters, court matters, if any shall be subject to Bangalore jurisdiction only.
25	<p>Force Majeure: 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>
	End of Section III

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

Schedule of Requirements / Scope of Supplies is as detailed below

LOT – 1 Circular Saw Machine & Portable Disc Sander

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/1	Circular Saw machine	Dia : 450 mm	2
2	3/2	Circular Saw machine	Dia : 250 mm	2
3	3/8	Portable disc Sander	Dia : 150 mm	4
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 2 Band Saw Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/4	Band Saw M/c	Dia : 800 mm	2
2	3/5	Band Saw M/c	Dia : 400 mm	2
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 3 Wood Lathe & Bench Miller

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/19	Wood Lathe		2
2	3/21	Bench Miller		1
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 4 Pattern Lathe & Pattern Milling machine

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/18	Pattern Lathe		2
2	3/20	Pattern Milling M/c		2
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 5 Planer, Sharpener, Top Spindle & Router Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/22	Planer (Combination)		1
2	3/24	Band saw Sharpener M/c		1
3	3/25	Circular Sharpener M/c		1
4	3/26	Planer Knife Sharpener M/c		1
5	3/27	Top Spindle M/c		1
6	3/28	Portable Router M/C		1
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 6 Sand Disc Machines & Sanders

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/6	Sand disc M/c	Dia : 600 mm	2
2	3/7	Sand disc M/c	Dia : 300 mm	2
3	3/3	Portable Circular Saw machine	Dia : 150 mm	2
4	3/9	Portable Belt Sander	Length: 250mm	1
5	3/10	Horizontal edge Sander	Length: 2500mm	1
6	3/11	Bobbin Sander		4
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 7 Dust Collector & Planer Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/12	Dust Collector		2
2	3/13	Dust Collector Portable		1
3	3/14	Dust Collector for Sander		1
4	3/15	Cyclone (Dust Collector)		1
5	3/23	Portable Planer M/C		1
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 8 Drilling Machines

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
6	3/16	Drilling M/c	Column Type Cap 25 mm	2
7	3/17	Drilling M/c	Bench Type Cap 13 mm	2
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 9 Electrical Machine Trainers

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	8/1	Electrical Machine Trainer		1 set
2	8/3	3 Phase AC Motor Fault Simulator		1
3	8/5	Electrical Control Trainer		1
4	8/6	Electrical Trainer		1
5	8/7	3 Phase Induction Motor speed control Trainer		1
6	8/8	3 Phase Induction Motor Fault Simulator		1
7	8/9	Power Transmission Line Trainer		1
8	8/10	Electrical Power Generation setup		1
9	8/12	Distance Protection Relay Trainer		1
10	8/13	Distance Protection Relay Trainer		1
11	8/18	Double Bus Bar Trainer		1

12	8/22	Stepper Motor Trainer		1
13	8/141	Test Bench		1

FOR DETAILS REFER ENCLOSURE - 1

LOT – 10 Electrical Industrial trainers

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	8/2	Industrial Control trainer		1
2	8/4	House Wiring/ Commercial Wiring Installation Trainer		1
3	8/11	Biased Differential Relay Trainer		1
4	8/14	Over/ Under Voltage Relay		1
5	8/15	Inverse definite minimum time (IDMT) Over current Relay Trainer		1
6	8/16	Over/ Under Frequency Relay Trainer		1
7	8/17	Power Factor Control Relay Trainer		1
8	8/19	Solar Technology Trainer		1
9	8/20	Electro Hydraulic Trainer		1
10	8/21	Electro Pneumatic Trainer		1

FOR DETAILS REFER ENCLOSURE - 1

LOT – 11 Hand Tools

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1 to 150		Hand Tools		1 Lot

FOR DETAILS REFER ENCLOSURE -1

LOT – 12 Set of Hand Tools

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1 to 109		Set of Hand Tools		1 Lot

FOR DETAILS REFER ENCLOSURE -1

LOT – 13 Tool Kits

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

Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	8/26	Tool kit for work benches		12 sets
2	5/11	Tool kit for work benches		16 sets
3	1/15	Tool kit for work bench		16 sets
4	6/92	Tools for work benches		16 sets
5	9/31	Set of tools for work bench		12 sets
6	7/58	Set of tools for work bench		8 sets
7	8/133	Electrician tool kit		6

FOR DETAILS REFER ENCLOSURE - 1

LOT – 14 Miscellaneous items

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	9/7	Hand Lever shear		2
2	9/8	Fly Press		1
3	8/180	Ladder		1
4	6/110	Platform Weighing machine		1
5	8/128	Coil Winding machine		1
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 15 Oxy- Acetylene welding set

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	4/101	Oxy- Acetylene welding set		2
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 16 Precision Surface Griner

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	6/10	Precision Surface Grinder	Working surface 750 x 250 mm	1
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 17 Foot boards & Pallets

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	1/16	Foot boards for machines		1 set
2	5/84	Foot boards for machines	Assorted sizes	20
3	6/109	Foot boards for machines	Assorted sizes	17
4	6/108	Set of wooden pallets	Assorted sizes	1 lot
5	7/52	Pallets		6
FOR DETAILS REFER ENCLOSURE - 1				

LOT – 18 Power Tools

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.				
Sl. #	Annex. Ref.	Description	Brief Specification	Qty
1	3/29	Hand Tools – Pattern Making		1 Lot
FOR DETAILS REFER ENCLOSURE - 1				

End of Section IV

SECTION V – COMMERCIAL

Annexure – 1

PRICE SCHEDULE

LOT – 1 Circular Saw Machine & Portable Disc Sander

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	3/1	Circular Saw machine	Dia : 450 mm	2		
2	3/2	Circular Saw machine	Dia : 250 mm	2		
3	3/8	Portable disc Sander	Dia : 150 mm	4		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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

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

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

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

Dated:.....

Signature and seal of Authorized Signatory

NOTE

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4. VALUES should be both in figures and Words.

The prices quoted should be most competitive

LOT – 2 Band Saw 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	3/4	Band Saw M/c	Dia : 800 mm	2		
2	3/5	Band Saw M/c	Dia : 400 mm	2		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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:**

- 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

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

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

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The prices quoted should be most competitive

LOT - 3 Wood Lathe & Bench Miller

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
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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	3/19	Wood Lathe		2		
2	3/21	Bench Miller		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
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* Total cost of equipment including I & C in Indian Rupees (in words):						

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The prices quoted should be most competitive

LOT - 4 Pattern Lathe & Pattern Milling 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	3/18	Pattern Lathe		2		
2	3/20	Pattern Milling M/c		2		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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):						

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The prices quoted should be most competitive

LOT - 5 Planer, Sharpener, Top Spindle & Router 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	3/22	Planer (Combination)		1		
2	3/24	Band saw Sharpener M/c		1		
3	3/25	Circular Sharpener M/c		1		
4	3/26	Planer Knife Sharpener M/c		1		
5	3/27	Top Spindle M/c		1		
6	3/28	Portable Router M/C		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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):						

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The prices quoted should be most competitive

LOT – 6 Sand Disc Machines & Sanders

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.						
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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	3/6	Sand disc M/c	Dia : 600 mm	2		
2	3/7	Sand disc M/c	Dia : 300 mm	2		
3	3/3	Portable Circular Saw machine	Dia : 150 mm	2		
4	3/9	Portable Belt Sander	Length: 250mm	1		
5	3/10	Horizontal edge Sander	Length: 2500mm	1		
6	3/11	Bobbin Sander		4		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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):						

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

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The prices quoted should be most competitive

LOT - 7 Dust Collector & Planer 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	3/12	Dust Collector		2		
2	3/13	Dust Collector Portable		1		
3	3/14	Dust Collector for Sander		1		
4	3/15	Cyclone (Dust Collector)		1		
5	3/23	Portable Planer M/C		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
* Total cost of equipment 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.

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The prices quoted should be most competitive

LOT - 8 Drilling machines

Project: Setting up of Indo-Myanmar Industrial Training Centre (IMITC), Monywa, Myanmar.
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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.
6	3/16	Drilling M/c	Column Type Cap 25 mm	2		
7	3/17	Drilling M/c	Bench Type Cap 13 mm	2		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
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* Total cost of equipment including I & C in Indian Rupees (in words):						

***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

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The prices quoted should be most competitive

LOT – 9 Electrical Machine 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	8/1	Electrical Machine Trainer		1 set		
2	8/3	3 Phase AC Motor Fault Simulator		1		
3	8/5	Electrical Control Trainer		1		
4	8/6	Electrical Trainer		1		
5	8/7	3 Phase Induction Motor speed control Trainer		1		
6	8/8	3 Phase Induction Motor Fault Simulator		1		
7	8/9	Power Transmission Line Trainer		1		
8	8/10	Electrical Power Generation setup		1		
9	8/12	Distance Protection Relay Trainer		1		
10	8/13	Distance Protection Relay Trainer		1		
11	8/18	Double Bus Bar Trainer		1		
12	8/22	Stepper Motor Trainer		1		
13	8/141	Test Bench		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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:**

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The prices quoted should be most competitive

LOT – 10 Electrical Industrial 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	8/2	Industrial Control trainer		1		
2	8/4	House Wiring/ Commercial Wiring Installation Trainer		1		
3	8/11	Biased Differential Relay Trainer		1		
4	8/14	Over/ Under Voltage Relay		1		
5	8/15	Inverse definite minimum time (IDMT) Over current Relay Trainer		1		
6	8/16	Over/ Under Frequency Relay Trainer		1		
7	8/17	Power Factor Control Relay Trainer		1		
8	8/19	Solar Technology Trainer		1		
9	8/20	Electro Hydraulic Trainer		1		
10	8/21	Electro Pneumatic Trainer		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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).						
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The prices quoted should be most competitive

LOT – 11 Hand Tools

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
1	9	52	6	Adjustable Wrench	Made of forged steel, Length: 250mm	6		
2	5	18	6	Allen key Set	Made of steel Hexagonal short pattern Allen keys of sizes 2, 3, 4, 5, 6, 8 & 10 mm of steel with black finish, One Set consisting of 7 Nos.	6		
3	8	42	2	Allen key Set	Made of steel Hexagonal short pattern Allen keys of sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10, 11, 12 & 14mm of steel with black finish, One Set consisting of 12 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	2		
4	7	68	20	Allen key Set of 12 pieces	Made of steel Hexagonal short pattern Allen keys of sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10, 11, 12 & 14mm of steel with black finish, One Set consisting of 12 Nos.	20		
5	6	73	2	Arbor Press	Max. Pressure Exerted: 1 Ton Distance from center to back: 170 mm Height from Base to Guide: 340mm Size of Arbor (Square): 38 mm	2		
6	7	46	1	Arbor Press Hand operated	Max. Pressure Exerted: 1/2 Ton	1		
7	9	34	6	Beam Trammels	Made of steel, hardened & ground of beam sizes 265 mm, 365 mm and 520 mm with attachments The Set consisting of 3 Nos	6 sets		
8	8	48	2	Bearing Puller	Made of forged steel, 3 leg, Dia. 12 inch Make: Best Indian make	2		
9	4	96	2	Bench Vice	Made of cast iron, heavy duty bench vice and 75 mm jaw Make:Ambika/Netco	2		
10	4	97	2	Bench Vice	Made of cast iron, heavy duty bench vice and 120 mm jaw Make:Ambika/Netco	2		
11	6	63	2	Bevelled Edge	Blade Length 100 mm	2		
12	8 4 7 9	40 81 92 50	3 2 4 4	Blow Lamp	Made of Brass and capacity 0.5 litre Make: Best Indian Make	13		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
13	4	82	2	Blow Lamp	Made of Brass and capacity 1 litre Make: Best Indian Make	2		
14	5	27	4	Box Spanner	Made of steel tubing chrome polished of sizes 6 to 32 mm Set. One Set consisting of 12 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
15	8	38	1	C Clamps Set	Made of forged steel with powder coating finish of following maximum opening sizes of 55,105,155 and 205 mm. One Set consisting of 4 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	1		
16	4	65	4	Caliper odd leg spring joint	Made of steel with suitable graduation length 150mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
17	4	64	4	Caliper spring inside	Spring caliper made of steel, points to be hardened of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
18	4	63	4	Caliper spring joint outside	Spring caliper made of steel, points to be hardened of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
19	9	32	6	Calipers & Dividers - lot	Made of steel, points to be hardened of following types & sizes. a. Spring caliper outside 150 mm b. Spring caliper inside 150 mm c. Spring divider 150 mm d. Firm joint caliper outside 150 mm e. Firm joint caliper inside 150 mm f. Jenny caliper 150 mm g. Wing compass 150 mm. One Set consisting of 7 Nos	6 sets		
20	9	44	2	C Clamps Set	Made of forged steel with powder coating finish of following maximum opening sizes of 55,105,155 and 205 mm. One Set consisting of 4 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	2 sets		
21	5	12	10	Centre Punches	Made of high grade steel with deep knurling on the body for grip of size of Tip length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	10		
22	6	82	10	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	10		
23	8	118	8	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip dia 4 mm & length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	8		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
24	4	66	4	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
25	7	61	6	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip dia 10 mm & length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	6		
26	4	150	1	Chalkboard	Portable wall mounting type Green Chalkboard of size 1200x1800mm with accessories like wall mounting brackets, duster, chalk piece boxes..etc.	1		
27	5 6	16 111	6 20	Chisel	Made of steel, heat treatment for cutting edges / striking end of flat 1 inch.	26		
28	6	112	20	Chisel	Made of steel, heat treatment for cutting edges / striking end of cross cut ½ inches.	20		
29	6	113	20	Chisel	Made of steel, heat treatment for cutting edges / striking end (Half round) of size 10 x 250 mm Length	20		
30	8	41	3	Chisel	Made of steel, heat treatment for cutting edges / striking end of following types a. Flat: 100 mm length x 6 mm cutting edge width - 1 No b. Flat: 100 mm length x 12 mm cutting edge width - 1 No c. Flat: 100 mm length x 18 mm cutting edge width - 1 No d. Flat: 100 mm length x 24 mm cutting edge width - 1 No e. Flat : 100 mm x 32 mm cutting edge width – 1 No The Set consisting of 5 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	3 Sets		
31	6	114	20	Chisel	Diamond point 10 x 200mm	20		
32	7	60	6	Chisel cold flat	Assorted size	6		
33	4	59	4	Chisel flat	Made of steel, heat treatment for cutting edges / striking end of sizes 150mmX13mm cutting edge Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
34	9	58	2	Chisel Punch set	Made of steel of sizes 2, 3,4,5,6 & 8 mm. The Set consisting of 6 Nos.	2 sets		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
35	9	71	24	Chisels for slag removal	Made of steel, heat treatment for cutting edges / striking end of Flat shape of sizes 200 mm length x 25 mm cutting edge width	24		
36	5	19	6	Circlip plier set	Made of steel, hardened & tempered with holding capacity of 19-60 mm, internal and external type with straight & bent noses of length 180 mm. One Set consisting of 4 Nos.	6		
37	7	69	20	Circlip Plier set (Ext. & Int.)	Made of steel, hardened & tempered with holding capacity of 19-60 mm, internal and external type with straight & bent noses of length 150 mm & 200 mm. One Set consisting of 4 Nos.	20		
38	5	17	6	Cold chisel	Made of steel, heat treatment for cutting edges / striking end of cross cut ½ inches.	6		
39	9	56	2	Combination pliers	Made of steel drop forged, hardened & tempered and perfect grip of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	2		
40	5	14	2	Copper Hammer	Copper faced 40 mm dia, 1 Kg., length 305 mm fitted with seasoned wooden handles Make:Taparia/Ambica/Eastman / Netco (ISO)	2		
41	8	51	8	Crimping Tool set	Crimping tool of following types & sizes. a. Bootlace terminal crimp tool With spring opening action – 1 No b. D-sub/Double D service tool - 1No c. Heavy duty crimp Ratchet crimper with non Insulated terminal of 16mm Square – 1 No d. Heavy duty crimp tool with ratchet crimper with non insulated terminal of 8 mm square – 1 No The set consisting of 4 Nos.	8		
42	8	67	8	Desoldering Gun	De Soldering gun, operating with 230 V AC built in motor, vaccum pump, temp control circuit, Temp range 250-450 deg with ceramic heating element and along with standard accessories. Make:Taparia/Ambica/Eastman / Netco (ISO)	8		
43	9	47	12	Diagonal Nipper	Made of steel, hardened & tempered of size 150 mm fitted with cushioned insulated grip handles	12		
44	9	59	2	Diamond point Chisel set	Made of steel, heat treatment for cutting edges / striking end of size 150 mm length x 20 mm diamond point cutting edge Make: Taparia/Ambica/Eastman/ Everest or ISI marked	2		
45	8	59	8	Divider	Made of steel, points to be hardened of Spring type divider 150 mm. outside Make:Taparia/Ambica/Eastman / Netco (ISO)	8		
46	5 6	34 119	6 6	Divider Spring	200 mm Taparia/Ambica/Eastman/Netco (ISO)	12		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
47	4	62	4	Divider Spring joint	Made of steel points to be hardened of Length 150 mm outside Make:Taparia/Ambica/Eastman / Netco (ISO)	4		
48	8	143	3	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		
49	7	105	1	Double open end Tappet spanner		1 set		
50	7	106	20	Drift copper		20		
51	6	86	5	Drill chucks	With key and fully hardened and ground, 1.5 - 13 mm capacity, jaws are to be centre ground for alignment and concentricity, key holes and teeth are to be hardened.	5		
52	9	48	6	Electric Soldering Iron	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 200W – 6 Nos. fitted with Copper tip	6		
53	5 6 9	65 62 42	6 6 6	Engineer Try square	Assorted sizes	18		
54	9	36	6	Engineering Parallels	Assorted sizes	6		
55	9	33	6	Engineering Scribes	Made of Steel of following types, one number each. Dimensions are in mm. Type Dia length a. straight head - 4 150 b. Angled head - 4 150 One Set consisting of 2 Nos.	6		
56	7	73	6	Engineering Square	Made of steel, hardened & ground and Graduated in metric - 200 mm length	6		
57	9	35	6	Engineering straight edges	Made of steel of following sizes Length Width Thickness a. 150 mm 35 mm 6 mm b. 300 mm 35 mm 6 mm c. 400 mm 35 mm 6 mm d. 600 mm 35 mm 6 mm The Set consisting of 6 Nos.	6		
58	4	56	1	Engineers rule	Made of Stainless steel, graduation in metric of size 300mm.	1		
59	4	74	2	Engineers square	Made of steel, hardened & ground, graduated in Metric of size 200 mm long	2		
60	6	116	20	File card	For cleaning and chips removal from hand files	20		
61	4	72	4	File flat fine double cut	Hand file, length 150 mm and second cut fitted with handles	4		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
62	4	68	4	File flat medium double cut	Flat file, bastard & smooth, one each number of length 150 mm fitted with handles.	4		
63	4	70	4	File half round fine double cut	Round file, bastard & smooth 10 nos each of length 150 mm fitted with handle. Make: Taparia/Ambica/Eastman/JK	4 sets		
64	4	69	4	File half round medium double cut	Round file, bastard & smooth 10 nos each of length 200 mm fitted with handle. Make: Taparia/Ambica/Eastman/JK	4 sets		
65	4	71	4	File round fine double cut	Round file, bastard & smooth 10 nos each of length 150 mm fitted with handle. Make: Taparia/Ambica/Eastman/JK	4 sets		
66	4	73	4	File square fine double cut	Square file, bastard & smooth 10 nos each of length 150 mm fitted with handle. Make : Taparia/ Ambica/Eastman/JK	4 sets		
67	8	65	8	Files	Files with following cross sections and lengths fitted with handles. a. Flat Bastard- 150 /350 mm b. Flat smooth -150 /350 mm c. Half round Bastard-150/350mm d. Half round Smooth- 150/350mm e. Square Bastard- 150/350mm f. Square Smooth- 150/350mm g. Round Bastard- 150/350mm h. Round Smooth- 150/350mm i. Triangular Bastard- 150/350mm j. Triangular Smooth- 150/350mm One Set consisting of one each of 20 Nos. Make: JK/Yamayo (ISO)	8		
68	8	124	8	Firmer chisel wood	Made of steel of size 12mm and fitted with suitable handle Make: FISHER/MARK	8		
69	6	79	10	Flat scrapers	Fitted with handle of size 20 mm width and 200mm length	10		
70	8	44	2	Grease Gun	Lever type big with working pressure of 310 bar, 14 oz capacity Make: Prima / Groz	2		
71	4 6 7 9 8 5	60 84 77 46 55 22	4 6 50 12 8 6	Hack saw frame with blades	Tubular, size 300mm, , adjustable, bow epoxy powder coated, 8mm square fitting with wing nut, fitted with handle and each unit to be supplied with 20 numbers of blades. Make: NETCO	86		
72	7	59	6	Hammer ball pin	Assorted shape and size	6		
73	4	53	4	Hammer ball pin	Ball pein – 0.45 Kg. with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	4		
74	4	54	4	Hammer ball pin	Ball pein – 0.22 Kg. with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	4		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
75	7	72	6	Hammer – Copper with handle	Copper faced 40 mm dia, 1 Kg., length 305 mm fitted with seasoned wooden handles Make:Taparia/Ambica/Eastman / Netco (ISO)	6		
76	4	55	4	Hammers - Nylon	Nylon- 300 gms with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	4		
77	8	54	8	Hammer set - Steel	Forged steel, hardened & tempered with wooden handles of following types: a.flat face dia 40mm – 1 No b.Ball peen face dia 30 mm – 1 No c.Cross peen face dia 30 mm- 1 No The Set consisting of 3 Nos Make: PYE / AMBIKA / EASTMAN	8		
78	9	43	2	Hammering block	50 mm (Height) x 60 mm (length) x 60 mm (Width)	2		
79	8	123	8	Hammers - Nylon	Nylon- 450 gms with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	8		
80	4	85	1	Hand blower portable	Hand blower portable complete 1/10 HP	1		
81	7	65	2	Hand file second cut	Hand file, length 200 mm and second cut fitted with handles	2		
82	9	70	24	Hand Gloves	Material :Leather Make: ESCORTS / JAINCO	24		
83	7	86	10	Hand reamer, adjustable	Assorted sizes	10		
84	6	81	10	Hand vice	Made of steel of minimum size 75 mm	10		
85	7	82	2	Hand vice	Made of steel of minimum size 37 mm	2		
86	9	57	2	Hollow Punch set	Made of steel, length 100mm of hole size dia 6mm.	2		
87	5	73	1	Illuminated Magnifier	Flexible arm illuminated magnifier – Circular tube light mounted around precision glass lens of 130 mm dia. Feather touch spring Balanced stand. Suitable for inspection up to magnification 10 x	1		
88	6	54	5	Illuminated Magnifiers	Flexible arm illuminated magnifier – Circular tube light mounted around precision glass lens of 130 mm dia. Feather touch spring Balanced stand. Suitable for inspection up to magnification 10 x	5		
89	8	58	8	Insider caliper	Spring caliper inside of high quality steel, points to be hardened of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	8		
90	8	119	8	Knife Electrician	Electrician knife standard type 18x100 mm with 8 segment blade Indian Make: Best Indian	8		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
91	4	105	4	Knife folded	Folded – Stainless Steel 150mm	4		
92	6	75	5	Letter Punch	Made of steel, 27 pieces of A-Z and letters of sizes 3 mm and 6 mm One set consisting two sizes	5		
93	5	24	4	Letter Punches	Made of steel, 27 pieces of A-Z and letters of sizes 3 mm and 6 mm One set consisting two sizes	4		
94	4	103	4	Line tester	500 volts heavy duty	4		
95	6	58	4	Magnetic V-block	Assorted	4		
96	5	37	2	Magnetic V-block	Assorted	2		
97	7	91	20	Mallet (Plastic)	Mallet Plastic 30 mm with handle	20		
98	7	90	20	Mallet (wooden)	Wooden mallet of dia 40 mm fitted with seasoned wooden handles	20		
99	8	53	8	Mallet wooden	Wooden mallet of dia 40 mm fitted with seasoned wooden handles Make:Taparia/Ambica/Eastman / Netco (ISO)	8		
100	4	75	2	Marking Block universal spindle	200 mm	2		
101	8	164	1	Motor winding set	Armature winding of FHP AC motor set for motor winding practice. The set should contain the following: ➤ Brush holder ➤ Shaft ➤ Insulating paper ➤ Commutator ➤ Bearings with assembly manual ➤ Carbon brush ➤ Rotor ➤ Copper coil Body	1		
102	7	95	5	Nose pliers set of round/straight	Made of Steel, shapes of round and straight of sizes 150 mm & 200mm. One Set consisting of 4 Nos.	5		
103	6	76	5	Number Punch	Made of steel, 9 pieces of Nos 0-8 and Sizes 3 mm and 6 mm One set consisting of two sizes	5		
104	5	23	4	Number Punches	Made of steel, 9 pieces of Nos 0-8 and Sizes 3 mm and 6 mm One set consisting of two sizes	4		
105	8	43	3	Oil can	0.12 litre capacity Make : Netco / Groz	3		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
106	7	110	4	Oil can	0.5 litre capacity Make : Netco / Groz	4		
107	4	67	2	Oil can pressure type	1 Liter Capacity Make : NETCO / Groz	2		
108	6	97	1	Oil drums, measures & dispensers	Assorted	1		
109	6	98	1	Oil Filtering unit	Porta filter	1		
110	7	113	20	Oil stones	15 x 53.75 mm Rough & Smooth one each The set consisting of 2 Nos.	20		
111	6	87	5	Oil stone	150 x 50 x 25 mm Medium grit	5		
112	5	38	6	Oil stones med. Grit	Medium grit of 10 mm Square, Triangular, round sections of one each number One set consisting of 3 Nos. Make: Cumi	6		
113	5	39	6	Oil stones med. Grit	Single grit, Medium grade, Aluminium oxide, rectangular section of size150x50x25mm Make: Cumi	6		
114	8	57	8	Outside caliper	150 mm	8		
115	8	166	1	Paper Shearing machine		1		
116	6	61	4	Parallel blocks-hardened	Set of Assorted sizes	4		
117	4	48	2	Philips Screw Driver	Complete set in leather case	2		
118	7	70	10	Philips Screw Driver Type set of 5 pieces	Complete Set in Leather Case Taparia/ Ambica/Eastman/ Everest or ISI marked	10		
119	8	126	8	Pincer	150 mm Make: Best Indian make	8		
120	8	162	2	Pipe bender for TV antenna work	For the smooth controlled of pipe, upto 180 deg angle pipe size 10 mm	2		
121	9	53	2	Pipe cutter	25mm capacity Powergrip / Dayton	2		
122	8	70	8	Pipe cutter	25mm and 50 mm capacity One set consisting of 2 Nos. Powergrip / Dayton	8		
123	9	54	2	Pipe wrench	Made of steel precision machined gripped teeth on jaws and straight shank, provide firm non slip grip of length 300 mm	2		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No	Sl. No.	Qty					
124	4	32	1	Pipe wrench	Made of steel size 50 to 150 mm Make: Taparia/Ambica/Eastman/Netco(ISO)	1		
125	8	72	2	Plane Smoothing cutter	Fully hardened steel cutting blade of size 50 mm Make: Anant / Samrat	2		
126	5	15	4	Plastic Hammer		4		
127	7	64	2	Plier combination	Combination - 150 mm length Make : Best Indian Make	2		
128	4	50	2	Plier combination insulated	Combination - 200 mm length Make : Best Indian Make	2		
129	4	52	1	Pliers flat nose	Length 150 mm	1		
130	8	116	8	Pliers insulated	Combination, side cutting, long nose 150 mm	8		
131	4	51	2	Pliers long nose	Length 200 mm	2		
132	8	60	8	Pliers nose- set	150 mm and 200 mm – round & straight	8		
133	9	61	4	Plumb bob and Aluminium plumb	Machined & fully polished, removable self centering cord Make: Netco (ISO)	4		
134	4	87	1	Plumb weight	200 mm	1		
135	7	108	1	Pressure Grease Gun	Lever type big with working pressure of 310 bar, 14 oz capacity Make: Prima / Groz	1		
136	7	71	10	Prick Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip dia 4 mm & length 150 mm Taparia/ Ambica/Eastman/ Everest or ISI marked	10		
137	4	84	1	Puller 2 legged with flexible arm 300 mm	Made of forged steel, 2 leg, Dia. 12 inch	1		
138	4	83	1	Puller 3 legged with flexible arm 120 mm	Made of forged steel, 3 leg, Dia. 5 inch	1		
139	8	47	2	Pulley puller	Puller set for removing belt pulley Make: Taparia/Ambica/Eastman / Netco (ISO)	2		
140	7	79	2	Punch Hallow set	Made of steel, length 100mm of hole size dia 5 mm, 6mm, 7mm, 8mm, 9mm, 10mm & 12mm. The Set consisting of 7 Nos.	2		
141	7	81	10	Punch letters set	Made of steel, 27 pieces of A-Z and letters of sizes 3 mm	10		
142	7	80	10	Punch Numbers set	Made of steel, 9 pieces of Nos 0-8 and Sizes 3 mm	10		
143	8	46	6	Rawl plug tool & bit	No 6, 8, 10, 12 One set consisting of 4 Nos. Make: Netco	6		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.	
	No	Sl. No.	Qty						
144	7	67	20	Ring spanner set of 12 pieces	Made of steel, sizes 10 to 32 mm - set Taparia/ Ambica/ Eastman/ Everest or ISI marked	20			
145	9	10	1	Rivetting Machine	Pneumatically operated oil less riverter of stroke length 14 mm	1			
146	9	11	1	Rivetting Machine	Hand riveting machine of length 260 mm	1			
147	5	13	2	Rubber Hammer	Made of vulcanized synthetic rubber of face dia 50 mm fitted with seasoned wooden handles 1 kg Make: SMITH/NETCO	2			
148	7	141	2	Rule Steel	Made of Stainless steel, graduation in both Metric & English of size 300 mm	2			
149	6	117	20	Safety goggles	Safety goggles for eye protection clear/plastic	20			
150	7	88	20	Safety goggles	Safety goggles for eye protection clear/plastic	20			
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #								
B	Cost of inspection, trails & extended international warranty @ 6% on (A)								
C	18% GST applicable on (B)								
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)								
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)								
* Total cost of equipment 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.
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 – 12 Set of Hand Tools

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
1	8	122	8	Saw tenon	250 mm length Netco/Xtra Power	8		
2	8	50	2	Scissors blade	Industrial scissors of 150 mm length Make: Best Indian	2		
3	7	87	10	Scraper flat	Assorted shapes and sizes	10		
4	7	63	6	Screw driver	Assorted	6		
5	4	49	1	Screw driver plastic handle 3 mm tip length	Made of steel, handle made of Plastic, reversible type 3 x 100mm blade and 3 x 150 mm - insulated Make:Taparia/Ambica/Eastman / Netco (ISO)	1 set		
6	4	46	17	Screw driver plastic handle 6 mm tip length	Made of steel, handle made of Plastic, reversible type 6 x 100mm & 6x150 mm lg Make:Taparia/Ambica/Eastman / Netco (ISO)	17		
7	4	47	5	Screw driver plastic handle 6 mm tip length	Made of steel, handle made of Plastic, reversible type 6 x 200 & 6 x 250 mm lg Make:Taparia/Ambica/Eastman / Netco (ISO)	5		
8	5	21	6	Screw driver set	Made of steel, Phillips type, handle made of plastic with following blade dia and length in mm (sizes) a. Dia 3.0 x 100 – 1 No b. Dia 5.0 x 200 – 1 No c. Dia 8.0 x 250 – 1 No The Set consisting of 3 Nos	6 sets		
9	8	117	8	Screw driver set	Made of steel, Phillips type, handle made of plastic with following blade dia and length in mm (sizes) d. Dia 3.0 x 100 – 1 No e. Dia 5.0 x 200 – 1 No f. Dia 8.0 x 250 – 1 No The Set consisting of 3 Nos	8 sets		
10	8	120	8	Screw driver with Neon light tester	Screw driver type with neon light indicator of 100 mm length with tip width of 3.5 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	8		
11	8	125	8	Scriber	150mm handle and tip Dia 4 mm Make: Best Indian make	8		
12	4	61	4	Scriber	150mm handle and tip Dia 4 mm Make: Best Indian make	4		
13	7	74	6	Scriber	Assorted sizes and shapes	6		
14	7	75	6	Scriber Block Universal	Made of steel base of 4 1/8 x 3 3/8 x 1 1/16 inches , spindle length of 12 inches and dia of scriber 3/8 inches.	6		
15	5	28	6	Scribers	Assorted sizes and shapes	6		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
16	5	32	6	Set of Calipers	Made of steel, points to be hardened of following types & sizes. a. Spring caliper outside 150 mm b. Spring caliper inside 150 mm c. Spring divider 150 mm d. Firm joint caliper outside 150 mm e. Firm joint caliper inside 150 mm f. Jenny caliper 150 mm g. Wing compass 150 mm. One Set consisting of 7 Nos	6		
17	6	118	6	Set of Calipers	Made of steel, points to be hardened of following types & sizes. a. Spring caliper outside 150 mm b. Spring caliper inside 150 mm c. Spring divider 150 mm d. Firm joint caliper outside 150 mm e. Firm joint caliper inside 150 mm f. Jenny caliper 150 mm g. Wing compass 150 mm. One Set consisting of 7 Nos	6		
18	5	29	6	Set of Files	Assorted sizes and shapes	6		
19	6	115	20	Set of Files	Assorted sizes and shapes	20		
20	6	83	10	Set of Hammers	Nylon- 300 gms /Ball pein – 0.75 Kg./ Cross Pein 115 Gms with Handle. Make: Taparia / Ambica / Eastman/ Netco (ISO)	10		
21	9	45	4	Set of Hammers	Nylon- 300 gms /Ball pein – 0.75 Kg./ Cross Pein 115 Gms with Handle. Make: Taparia / Ambica / Eastman/ Netco (ISO)	4		
22	7	83	10	Set of Hand files	Assorted sizes	10		
23	6	105	1	Set of hand tools	Assorted sizes	1		
24	9	86	1	Set of Hand Tools - lot	Assorted sizes	1		
25	5	30	6	Set of Steel Ruler	300mm, 600mm and 1000mm – 1 each	6		
26	7	89	10	Setting Hammer	Best Indian make	10		
27	5	20	6	Side Cutting Plier	Length 150-175 mm Best Indian make	6		
28	7	96	2	Snip straight	250 mm	2		
29	4	88	1	Snipper sheet metal straight nose	200 mm	1		
30	9 8	51 62	12 8	Snips-tin cutter	300 mm	20		
31	8	161	2	Socket set	09 Square drive sockets size 4.5 – 12mm, 8” reversible handle, 3” extension bar	2		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
32	4	35	3	Socket set	reversible ratchet 12.7 mm square drive with extension 4.7 to 31.2 mm	3		
33	7	93	2	Soldering iron	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 120 W – 2 Nos. fitted with Copper tip	2		
34	8	66	8	Soldering iron - set	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with the following capacities fitted with Copper tip 25 W - 8 Nos, 65W - 8 Nos 125W – 8 Nos.	8		
35	7	94	2	Soldering Iron Copper set	150 mm & 200 mm	2		
36	9	49	6	Soldering Iron Copper tip	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 200 W – 6 Nos. fitted with Copper tip	6		
37	4	79	2	Soldering Iron exchangeable copper tip 65 watts	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 65 W – 2 Nos. fitted with Copper tip	2		
38	7	97	10 sets	Spanners double ended	Assorted sizes	10 sets		
39	7	103	10	Spanner socket set	Made of steel, hex socket spanners of sizes from 6mm to 32 with suitable L handle and extension bar Taparia/ Ambica/Eastman/ Everest or ISI marked	10		
40	7	104	1	Spanner T-Flex for screwing up and unscrewing in inaccessible position	Made of steel, hex socket spanners of sizes from 8mm to 32 mm consisting of 24 Nos along with suitable sliding T-handle, L handle and extension bar Taparia/ Ambica/Eastman/ Everest or ISI marked	1		
41	7	99	5	Spanners adjustable	Made of steel, Length: 200mm Taparia/ Ambica/Eastman/ Everest or ISI marked	5		
42	8	39	12	Spanners set	Made of Steel, hardened and tempered Metric Double ended 6 - 32 mm Make:Taparia/Ambica/Eastman/Netco(ISI)	12		
43	7	107	2	Spray gun	Kerosene spray gun	2		
44	7	132	5 set	Spring Plier	Made of steel with tips hardened & tempered of size 150 mm & 200 mm The Set consisting of 2 Nos. Make:Taparia/Ambica/Eastman/Netco(ISI)	5 set		
45	9	39	6	Spirit level	Made of aluminum, length 600 mm and angle of 180,90 & 45 deg	6		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
46	4	86	1	Sprit level Precision	Flat type of length 200 mm with sensitivity of 0.02 mm 180,90 degrees	1		
47	5	31	2	Steel Measuring Tape	5 mts and 10 mts.	2		
48	9	38	6	Steel Measuring Tape	5 mts and 10 mts.	6		
49	8	121	8	Steel rule	Made of Steel 300 mm Make:Taparia/Ambica/Eastman/Netco(ISI)	8		
50	7	62	6	Steel rule	300 mm – English & Metric	6		
51	6	65	6	Steel rulers	300mm, 600mm & 1000mm – 1 no. each	6 sets		
52	9	37	6	Steel rulers	300mm, 600mm & 1000mm – 1 no. each	6 sets		
53	8	71	2	Stock and die set	For 20mm to 50mm. G.I. Pipe Make : Taparia/Ambica/Eastman/Netco(ISO)	2		
54	4	118	1	Stop Watch	Digital single-action, time-out, interval-split, cumulative split, continuous roll-over timing, and countdown alarm timing. Resolution is 0.01 second. Times to 9 hours, 59 minutes, 59 seconds, and 99 hundredths. Vivid, 1/2-inch high LCD digits are ideal for viewing in lab and field.	1		
55	6	64	2	Straight Edge	Made of steel of 1000mm length	2		
56	9	40	6	Surface Gauge	Universal type Make:Taparia/Ambica/Eastman/Netco	6		
57	4	115	1	Tachometer digital multi grade 0 to 3000 rpm portable small size in leather case	Contact type to measure rpm up to 9999 with all standard accessories	1		
58	4	90	1	Tap set matching drills	¼” to 5/8” SAE	1		
59	4	91	1	Tap set matching drills	¼” to 5/8” SAE	1		
60	4	89	1	Tap set with matching drills	3 mm to 16 mm	1		
61	5	25	4	Tap wrenches	Assorted sizes	4		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
62	6	77	10	Tap wrenches	Assorted sizes	10		
63	4	57	1	Tape measuring 10 m graduation in mm	Made of Steel 10 Mtrs graduation in MM Make:Freemans(ISI)	1		
64	4	58	2	Tape measuring 2 m graduation in mm	Made of Steel 2 Mtrs graduation in MM Make:Freemans(ISI)	2		
65	7	85	10	Taps and dies complete set in box	All standard sizes in a box	10		
66	8	49	2	Thermometer	Thermometer to measure 0 to 100 deg centigrade	2		
67	4	104	4	Tong tester	0-10-30 amps 0-500 volts (Clamp on Multimeter)	4		
68	4	33	1	Torque wrench	300 mm 12.7 mm square drive right and left hand	1		
69	7	133	3 set	Torque Wrench (Set of 3 nos)	Assorted sizes (One set consists of 3 assorted sizes)	3 set		
70	7	114	2	Torque Wrench (Set of 3)	0 to 67.5 kgm	2		
71	4	116	1	Transistor Tester		1		
72	6	80	10	Triangular Scrapers	Fitted with handle of size 23 mm width and 200mm length	10		
73	8	56	8	Try square	150 MM blade Make: Best Indian make	8		
74	8	61	8	Tweezers	Anti magnetic, anti acid, non corrosive stainless steel of: -Tapered flat tip 4 ¼"Length - 1 No - Tapered ultra fine tip 4 ¼"length - 1 No - Angled ultra fine tip 4 ¼"length - 1 No - Strong precision type 5"length - 1 No - Thick flat strong tip 4 ¾"length - 1 No - serrated grips flat strong tip 4 ¾" - 1 No - Curved fine tip 4 ¾"length - 1 No - Straight narrow long fine tip 4 ½" -1 No - Pvc coated 4 ¾"length - 1 No The set consisting of 9 Nos	8		
75	7	78	2	V-Block	Assorted sizes	2		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
76	5	35	6	V-Block sets	Made of steel, hardened & ground of Sizes 65x60x50 mm, 80x65x60 mm and 100x95x75 mm.The Set consisting of 3 Nos.	6		
77	5	36	6	V-Block sets with clamps	Made of steel, hardened & ground of sizes 50x40x40 mm,80x63x63 mm and 125x90x90 mm along with clamps	6		
78	4	76	2	V-Block with clamp 75 mm	Made of steel, hardened & ground of sizes 50x40x40 mm,80x63x63 mm and 125x90x90 mm along with clamps	2		
79	8	69	8	Vice Bench	Made of cast iron, heavy duty bench vice and 100 mm jaw Make:Ambika/Netco	8		
80	8	68	8	Vice hand	Made of steel of minimum size 50 mm Make: Ambika / NETCO	8		
81	9	69	24	Welder apron	Welding purpose	24		
82	9	66	24	Welder Goggles	Welding purpose	24		
83	9	67	24	Welder Hand shield	Welding purpose	24		
84	9	68	24	Welder Helmet	Welding purpose	24		
85	9	72	24	Wire Brush	Wire brush with hard metallic strands of 1½" size for welding purpose	24		
86	8	52	8	Wire stripper	125mm Make: Best Indian make	8		
87	5	83	1lot	Work holding devices	Assorted sizes	1 Lot		
88	4	31	2	Wrench adjustable	Made of forged steel, Length: 150mm Make:Taparia/Ambica/Eastman Netco (ISO)	1		
89	4	29	1	Wrench adjustable	Made of forged steel, Length: 200mm Make:Taparia/Ambica/Eastman Netco (ISO)	2		
90	4	30	2	Wrench adjustable	Made of forged steel, Length: 250mm Make:Taparia/Ambica/Eastman Netco (ISO)	2		
91	8	163	2	Electrical hand drill machine with hammer action	230V, 50Hz, chuck, 600W capacity 01mm - 13 mm Make: Ambika / Powertool APT-ED-254	2		
92	7	130	2	General purpose Puller	Puller with 3 leg, heat treated and chrome plated to resist corrosion. Drop forged legs should be reversibile for internal or external pulling.	2 set		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
93	7	131	2	Stud Extractor	For removing broken or seized studs, bolts etc of sizes 6, 8, 10 & 12 mm (One set = 4 nos.)	2 set		
94	5	63	1	Slip gauge set	Workshop grade – 112 piece alloy steel set			
95	9 7	15 56	3 6	Angle Grinder	Portable Grinder, operating with Single phase 230 V AC 50 Hz, wheel disc size: 100mm, Power input – 670 W, No load speed-11000rpm, Spindle thread: M10 And along with standard accessories. Make: Ambika/Powertool APT-AG-104 2.Spare parts for two years normal operation – backup pad-2 nos. Carbon brush – 2 nos. Gear & Pinion – 1 no.	9		
96	9 7	14 54	2 2	Disc Grinder	1.Portable Grinder, operating with Single phase 230 V AC 50 Hz, wheel disc size: 100mm, Power input – 670 W, No load speed-11000rpm, Spindle thread: M10 And along with standard accessories. 2.Recommended spare parts for two years normal operation to be included separately	4		
97	9 7	16 53	12 2	Portable drilling machine	1. Portable drilling machine , operating with Single phase 230 V AC, 50 Hz, minimum power input – 450 W, minimum along standard with accessories for drilling Capacity of dia 10 mm. 2. Recommended spare parts for two years normal operation to be included separately	14		
98	6	85	5	Electric drill gun	1. Electric drill gun operating with Single phase 230 V AC, 50 Hz, minimum power input – 450 W, minimum along standard with accessories for drilling Capacity of dia 13 mm. 2. Recommended spare parts for two years normal operation to be included separately	5		
99	4	98	2	Electrical drill portable with chuck and key capacity 6 mm	230V, 50Hz, chuck, 600W capacity 6mm Make: Ambika / Powertool APT-ED-254	2		

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.	
	No.	S. No.	Qty.						
100	9	12	2	Flexible shaft grinder	One HP capacity, single Phase 230 V AC, 12000 rpm, Metal shaft size of 10 x 1500 mm, 6 mm collet shank holder and along standard with accessories. Recommended spare parts for two years normal operation to be included separately	2			
101	7	55	2	Portable Die Grinder	1.Portable Grinder, operating with Single phase 230 V AC, 50 Hz, Power input – 600 W, Grinding point maximum dia -25 mm, minimum No load speed – 27000 rpm, tool holder - 8 mm and along With standard accessories. 2.Recommended spare parts for five years normal operation to be included separately	2			
102	3/30		12	Smooth plane-250 mm lg and 50 mm width of cutter				12	
103	3/30		12	Jack plane-355 mm lg and 50 mm width of cutter				12	
104	3/30		60	Block plane-140 mm lg and 35 mm width of cut iron				60	
105	3/30		36	Block pane - 153 mm lg and 40 mm width of cut iron				36	
106	3/30		15	Craftsman plane				15	
107	3/30		1	T bar clamp				1 each	
108	3/30		12	F clamp Heavy weight				12	
109	3/30		12	Hand saw-cross cut				12	
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #								
B	Cost of inspection, trails & extended international warranty @ 6% on (A)								

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar								
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.	Unit F.O.R. Chennai Port Price in Ind. Rs	Total F.O.R. Chennai Port Price in Ind. Rs.
	No.	S. No.	Qty.					
C	18% GST applicable on (B)							
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)							
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)							
* Total cost of equipment 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.
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 – 13 Tool Kits

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	8/26	Tool kit for work benches		12 sets		
2	5/11	Tool kit for work benches		16 sets		
3	1/15	Tool kit for work bench		16 sets		
4	6/92	Tools for work benches		16 sets		
5	9/31	Set of tools for work bench		12 sets		
6	7/58	Set of tools for work bench		8 sets		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
* Total cost of equipment 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

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The prices quoted should be most competitive

LOT – 14 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	9/7	Hand Lever shear		2		
2	9/8	Fly Press		1		
3	8/180	Ladder		1		
4	6/110	Platform Weighing machine		1		
5	8/128	Coil Winding machine		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
* Total cost of equipment 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

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The prices quoted should be most competitive

LOT – 15 Oxy-Acetylene Welding set

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	4/101	Oxy- Acetylene welding set		2		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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:**

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

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

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

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

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

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

Dated:.....

Signature and seal of Authorized Signatory

NOTE

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- 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 – 16 Precision Surface Grinder

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	6/10	Precision Surface Grinder	Working surface 750 x 250 mm	1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
# 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:**

- 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.

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

Dated:.....

Signature and seal of Authorized Signatory

NOTE

- The offer must be submitted as per above proforma. The Bidder may use his letterhead to submit his offer.
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- 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 Foot Boards & Pallets

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	1/16	Foot boards for machines		1 set		
2	5/84	Foot boards for machines	Assorted sizes	20		
3	6/109	Foot boards for machines	Assorted sizes	17		
4	6/108	Set of wooden pallets	Assorted sizes	1 lot		
5	7/52	Pallets		6		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
* Total cost of equipment 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.
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 Power 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	3/29	Rotary Drill		1		
2		Large Angle Grinder		1		
3		Blower		1		
4		Circular Saw		1		
5		Jigsaw		1		
6		Orbital Sander		1		
7		Random Orbit Sander		1		
8		Planer		1		
A	Total F.O.R Chennai Port Price in Indian Rupees with seaworthy packing #					
B	Cost of inspection, trails & extended international warranty @ 6% on (A)					
C	18% GST applicable on (B)					
D	Total Cost towards inspection, trails & extended international warranty with 18% GST i.e. (D) = (B) + (C)					
E	Total F.O.R Chennai Port Price in Indian Rupees i.e. (E) = (A) + (D)					
* Total cost of equipment 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.
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

Annexure – 2

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. _____	Phone: _____
_____	Fax: _____
_____	E-Mail: _____
City: _____	_____
PIN: _____	Web Site: _____
_____	_____

2. Contact Person

Name: _____	Designation: _____
E-Mail: _____	Phone: _____

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

6. Major Customers

1) _____	4) _____
2) _____	5) _____
3) _____	6) _____

Y N

7. Sales Office/Authorized Distributor

If yes Indicate details below

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

C M/s. _____

 PIN _____

Phone: _____
 Fax : _____
 E.Mail _____

M/s. _____

 PIN _____

Phone : _____
 Fax : _____
 E.Mail _____

Production & Service Capabilities

1 Product Range

a _____
 b _____
 c _____
 d _____
 e _____

f _____
 g _____
 h _____
 i _____
 j _____

2 Processes Existing in the Plant
 Processes

Availability

Details

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

N.A

Quality Information

1 Control adopted

Details

a	In-Process Inspection	<input type="checkbox"/>	<input type="checkbox"/>
		Y	N

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

2 Inspection & Testing Facility Available

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

3	Quality System Implemented-ISO 9000/QS 9000	<input type="checkbox"/>	<input type="checkbox"/>		
		Y	N		Enclose Certificate
4	Capability to supply products with CE Marking	<input type="checkbox"/>	<input type="checkbox"/>		
		Y	N		
5	Quality Level of Existing Products				
		1	2	3	4
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Poor	Fair	Good	Very Good
				<input type="checkbox"/>	<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	<input type="checkbox"/>	<input type="checkbox"/>	
	If Yes, Turnover for last 3 Years in Rs.Lakhs	Y	N	
3	Specify Countries to which Exports are made		USA	<input type="checkbox"/>
			UK	<input type="checkbox"/>

Europe
Middle East
CIS Countries
Others

4 Any Collaboration
If Yes, Indicate Details Y N

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

9 SSI Registration No. Range

10 Do you have Company Brochure
Y N

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

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

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

Details of supplies to HMT(I):

Compiled by:
Signature: _____
Name: _____
Date: _____

Note:

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

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

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

PROFORMA FOR BANK GUARANTEE FOR BID GUARANTEE

To,

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

Dear Sir,

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

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

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

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

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

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

Date.....

Signature.....

Place.....

Printed Name.....

Witness

1.....
(Designation)

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

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 – 1 to 10, 15&16)
(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/S003/18 Dated 28-12-2018 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

Enclosure – I

LOT 1 – Circular Saw Machine & Portable Disc Sander

1(1) : Circular Saw Machine (Dia: 450 mm)

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/1- Circular Saw Machine (Dia: 450 mm)		Qty : 2 No's.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Circular Saw Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2	
1.1	Major specifications		
1.1.1	Blade Diameter		450mm
1.1.2	Tilt of Blade		+45° 0-45°
1.1.3	Speed of Saw Spindle		2000 rpm
1.1.4	Depth of Cut		140mm
1.1.5	Diameter of Saw Spindle		40mm
1.1.6	HP of Motor		5 HP
2	Features / Accessories		
2.1	Motor Guage		1 No.
2.2	Motor Pulley		1 No.
2.3	Motor rail		1 No.
2.4	Saw Guard		1 No.
2.5	Tool Kit		1 No.
2.6	Belt		2 Nos.
3	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine
4	Colour of Machine : Standard		
5	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.		
6	Items required for E&C to be supplied with the machine:		
6.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
6.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
6.3	Foundation bolts with leveling plates - 1 set		

1(2) : Circular Saw Machine (Dia: 250 mm)

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

Ref No. 3/2- Circular Saw Machine (Dia: 250 mm)		Qty : 2 No's.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Circular Saw Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Blade Diameter	≥ 250mm
1.1.2	Spindle Angle	+45° -90°
1.1.3	Speed of Saw Spindle	3500 rpm
1.1.4	Maximum cutting height	80mm
1.1.5	Adjusting Height	0 - 80mm
1.1.6	Dimension of Working Table	700 x 700 mm
1.1.7	Total Motor power	4 HP
2	Features / Accessories	
2.1	Motor Guage	1 No.
2.2	Motor Pulley	1 No.
2.3	Motor rail	1 No.
2.4	Saw Guard	1 No.
2.5	Tool Kit	1 No.
2.6	Belt	2 Nos.
3	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
4	Colour of Machine : Standard	
5	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
6	Items required for E&C to be supplied with the machine:	
6.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
6.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
6.3	Foundation bolts with leveling plates - 1 set	

1(3) : Portable Disc Sander

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

Ref No. 3/8- Portable Disc Sander (Dia: 150 mm)		Qty : 4 No's.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Portable Disc Sander with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply/ 230V, 1Ph, 50Hz AC supply.	4
1.1	Major specifications	
1.1.1	Sanding Disc Dia	250mm
1.1.2	Sanding Belt Width	150mm
1.1.3	Speed of belt	1400 rpm
1.1.4	Power	1 HP
2	Operation/ Service/ Spare parts Manual (If any) – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine

LOT 2 – Band Saw Machine

2(1) : Band Saw machine (Dia: 800 mm)

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref. No. 3/4- Band Saw Machine		Qty : 2 Nos.	
Sl. No.	Description	Qty	
1.	Band Saw Machine with all standard accessories and Electrical equipment in the machine suitable for Electricals 400V, 3 Phase, 50Hz / 230V, 1Ph, 50Hz AC supply.	2	
1.1	Major specifications		
1.1.1	Diameter of Saw pulley		800 mm
1.1.2	Maximum Depth under saw guide		400 mm
1.1.3	Distance from saw to body		730 mm
1.1.4	Work Table Size		1200 x 800 mm
1.1.5	RPM of pulley		670
1.1.6	Power Required		10 HP
1.2	Features / Accessories		
1.2.1	Saw Blade		2 Nos.
1.2.2	Upper & Lower Saw Blade Guide Set		1 No.
1.2.3	Upper Saws Blade Guide Set		1 No.
1.2.4	Motor Guage		1 No.
1.2.5	Motor Pulley.		1 No.
1.2.6	Motor Fixing Plate		1 No.
1.2.7	Tool Kit		1 No.
1.2.8	Belt		2 Nos.
2	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore		3 sets (Total)
3	Colour: Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. Please indicate the detailed list of spares in Technical bid without price.		
5	Items required for E&C to be supplied with the machine:		
5.1	Touch up paint – 1/2 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
5.3	Foundation bolts with leveling plates	1 set	

2(2) : Band Saw machine (Dia: 400 mm)

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref. No. 3/5- Band Saw Machine		Qty : 2 Nos.	
Sl. No.	Description	Qty	
1.	Band Saw Machine with all standard accessories and Electrical equipment in the machine suitable for Electricals 400V, 3 Phase, 50Hz / 230V, 1Ph, 50Hz AC supply.	2	
1.1	Major specifications		
1.1.1	Diameter		400 mm
1.1.2	Throat		380 mm
1.1.3	Blade Guide		200 mm
1.1.4	Work Table Size		480 x450 mm
1.1.5	Power Required		2 HP
1.2	Features / Accessories		
1.2.1	Saw Blade		2 Nos.
1.2.2	Upper & Lower Saw Blade Guide Set		1 No.
1.2.3	Upper Saws Blade Guide Set		1 No.
1.2.4	Motor Guage		1 No.
1.2.5	Motor Pulley.		1 No.
1.2.6	Motor Fixing Plate		1 No.
1.2.7	Tool Kit		1 No.
1.2.8	Belt		2 Nos.
2	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore		3 sets (Total)
3	Colour: Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. Please indicate the detailed list of spares in Technical bid without price.		
5	Items required for E&C to be supplied with the machine:		
5.1	Touch up paint – 1/2 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
5.3	Foundation bolts with leveling plates	1 set	

LOT 3 – Wood Lathe & Bench Miller

3(1) : Wood Lathe

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/19- Wood Lathe		Qty : 2 No's.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Wood Lathe with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2	
1.1	Major specifications		
1.1.1	Height of Centre		200mm
1.1.2	Distance between Centres		1000mm
1.1.3	Spindle Bore		20mm with MK3 Internal Taper
1.1.4	Range of Speeds		425 to 2800 rpm
1.1.5	Motor Power		1.5 kw
2	Features / Accessories		
2.1	Revolving Centre		1 No.
2.2	Wood Turning Tool's		1 Set
2.3	Appropriate Spanners		1 Set
2.4	Through Chuck 100mm fitted on the Spindle.		
3	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine
4	Colour of Machine : Standard		
5	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.		
6	Items required for E&C to be supplied with the machine:		
6.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
6.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
6.3	Foundation bolts with leveling plates - 1 set		

3(2) : Bench Miller

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

Ref No. 3/21- Bench Miller		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Bench Miller with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Drilling capacity	upto 20mm
1.1.2	Spindle Travels	110mm
1.1.3	Spindle center to column	200mm (max.)
1.1.4	Distance between spindle and base body	700 mm ±5mm
1.1.5	Distance between spindle Nose and working table	400 mm ± 5mm
1.1.6	No. of speeds	5 Speed
1.1.7	Size of Table	500mm diameter
1.1.8	Spindle speed	300 – 2700 RPM
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

LOT 4 – Pattern Lathe and Pattern Milling Machine

4(1) : Pattern Lathe

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

Ref No. 3/18- Bench Miller		Qty : 2 Nos.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Pattern Lathe with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Length of Bed- 6.5 ft	1800 mm
1.1.2	Height of Centres	220 mm
1.1.3	Admit between Centres	1000 mm
1.1.4	Max Work Diameter	200 mm
1.1.5	Min Work Diameter	50 mm
1.1.6	Max Working Length	970 mm
1.1.7	Face Plate Diameter	260 mm
1.1.8	Spindle Speed (RPM)	570/1000/1850/2500
1.1.9	Power Required – Hp /RPM	15/1440
1.1.8	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
2	Features / Accessories	
2.1	Transparent Safety Guard	
2.2	Tool Rest	
2.3	HSS turning cutter	
2.4	Face plate	
2.5	4pin centre	
2.6	Revolving centre	
2.7	V-belt	
2.8	Toolkit	
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

4(2) : Pattern Milling Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar	
Ref No. 3/20- Pattern Milling Machine	Qty : 2 Nos.

TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Pattern Milling Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Working Surface	280 x1270 mm
1.1.2	Sewivel	45
1.1.3	T.Slot Nos./Size	3-5/83-16
1.1.4	Distance between T.Slot	3-5/83-16
1.2	Spindle	
1.2.1	No.Of Spindle Speeds	9
1.2.2	Range of Spindle Speeds	40 to 750
1.2.3	Spindle Taper	ISO- 40
1.3	Feeds	
1.3.1	Longitudinal (Manual/Auto)	27-710
1.3.2	Cross (in all geared only)	9 – 204
1.3.3	Vertical (in all geared only)	17- 430
1.3.4	No of Auto Feeds	9
1.3.5	Feeds Range P/M Longi.	10mm to 120mm
1.4	Electrical	
1.4.1	Main Motor	2 HP -1440 RPM
1.4.2	Feed Motor	2 HP -1440 RPM
1.4.3	Feed Motor (in all geared only)	2 HP -960 RPM
1.5	Coolant Pump	0.1 HP
1.6	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
2	Colour of Machine : Standard	
3	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
4	Items required for E&C to be supplied with the machine:	
5	Touch up paint - 1 litre each, Brush- ½” – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.1	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.2	Foundation bolts with leveling plates - 1 set	
5.3		

LOT 5 – Planer, Sharpner, Top Spindle & Router Machine

5(1) Planer (Combination)

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

Ref No. 3/22- Planer (Combination)		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Planer (Combination) with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Feed Speed	7m/min
1.1.2	Cutter Block Speed	5300rpm
1.1.3	Cutter Block Diameter	70mm
1.1.4	Max Thicknesser Capacity	305mm
1.1.5	Max Planning Width	310mm
1.1.6	Max Depth of Cut	3mm
1.1.7	Knives	3pcs
1.1.8	Fence Tilting	0-45°
1.1.9	Over Length of Planer Tables	1400mm
1.1.10	Thicknesser Table Size	750x310mm
1.1.11	Dust Extraction Outlet	100mm
1.1.12	Cutting Motor Output	3HP
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

5(2) Band Saw Sharpener Machine

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

Ref No. 3/24- Band Saw Sharpener Machine		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Band Saw Sharpener Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Saw blade width size	20-50mm
1.1.2	Grinding teeth range	Same as teeth/different size teeth
1.1.3	Tooth grinding feed rate	10-30teeth/min
1.1.4	Feed motor	0.4KW/230V
1.1.5	Wheel motor power	0.37kw/50Hz
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

5(3) Circular Sharpener Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/25- Circular Sharpener Machine		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Circular Sharpener Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1	
1.1	Major specifications		
1.1.1	Maximum Saw Blade diameter		Ø 200 – Ø600mm
1.1.2	Grinding Wheel Bore hole Diameter		Ø20, Ø22, Ø25.4, Ø30, Ø50, Ø60
1.1.3	Grinding Wheel Speed		3500 r/min
1.1.4	Motor Power		470 W
1.1.5	Motor Speed		1-24
1.1.6	Grinding Wheel Specifications		Ø125 x Ø32 (16) x 10mm
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine
3	Colour of Machine : Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.		
5	Items required for E&C to be supplied with the machine:		
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
5.3	Foundation bolts with leveling plates - 1 set		

5(4) : Planer Knife Sharpener Machine

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

Ref No. 3/26- Planer Knife Sharpener Machine		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Planer Knife Sharpener Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Maximum Length of Machining	980mm
1.1.2	Angle of Tool Support	40°
1.1.3	The Maximum (Permitted) Swing Angle of Motor	±5°
1.1.4	Motor Power	1 KW
1.1.5	Spindle Speed	2840 RPM
1.1.6	Coolant Motor	0.09 KW
1.1.7	Automatic Motor Power	0.25 KW
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> • Please indicate the detailed list of spares in Technical bid without price. 	

5(5) Top Spindle Machine

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

Ref No. 3/27- Top Spindle Machine		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Top Spindle Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Working Table Size	1130 x 680mm
1.1.2	Sliding table	250 x 1100mm
1.1.3	Spindle Speed	8000 / 10000 r/min
1.1.4	Spindle Diameter	30 mm
1.1.5	Spindle Height	100mm
1.1.6	Motor Power	4 K.W
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> • Please indicate the detailed list of spares in Technical bid without price. 	

5(6) Portable Router Machine

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/28- Portable Router Machine		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Portable Router Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1	
1.1	Major specifications		
1.1.1	Working Table		1000 x 800mm
1.1.2	Throat		750mm
1.1.3	Table tilts		45°
1.1.4	Collet size		1.27mm (1/2') 6.35mm (1/4')
1.1.5	Spindle Travel		75mm
1.1.6	Spindle drive motor		4 KW
1.1.7	Table travel		140mm
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine
3	Colour of Machine : Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> Please indicate the detailed list of spares in Technical bid without price. 		

LOT 6 – Sand Disc Machines & Sanders

6(1) Sand Disc Machine (Dia: 600mm)

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/6- Sand Disc Machine		Qty : 2 Nos.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Sand Disc Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2	
1.1	Major specifications		
1.1.1	Diameter of Sanding Disc		600mm
1.1.2	Size of table approx		850mm x 425mm
1.1.3	Power of Motor		7.5 HP
1.1.4	Speed		960 rpm
1.1.5	Table tilt		+ 45 degree - 10 degree
1.1.6	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine
2	Features / Accessories		
2.1	Appropriate spanners		1 Set
2.2	Appropriate size Allen Keys		1 Set
2.3	Grease Gun		1 No.
2.4	Oil Can		1 No.
2.5	Screw Driver		1 No.
2.6	Insulated Plier		1 No.
3	Colour of Machine : Standard		
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.		
5	Items required for E&C to be supplied with the machine:		
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
5.3	Foundation bolts with leveling plates - 1 set		

6(2) Sand Disc Machine (Dia: 300mm)

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

Ref No. 3/6- Sand Disc Machine		Qty : 2 Nos.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Sand Disc Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Diameter of Sanding Disc	300mm
1.1.2	Size of table approx	≥ 500mm x 100mm
1.1.3	Power of Motor	≥ 3 HP
1.1.4	Speed	≥ 400 rpm
1.1.5	Table tilt	+ 45 degree - 10 degree
1.1.6	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
2	Features / Accessories	
2.1	Appropriate spanners	1 Set
2.2	Appropriate size Allen Keys	1 Set
2.3	Grease Gun	1 No.
2.4	Oil Can	1 No.
2.5	Screw Driver	1 No.
2.6	Insulated Plier	1 No.
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

6(3) Portable Circular Saw Machine

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

Ref No. 3/3- Portable Circular Saw Machine		Qty : 2 Nos.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Portable Circular Saw Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Max Circular Saw Diameter	≥ 150 mm
1.1.2	Max Depth of Cut	50 mm
1.1.3	Table Tilt – Degree	45 deg
1.1.4	Work Table Size	450 x350 mm
1.1.5	Circular Saw Speed	3000 rpm
1.1.6	Power Required – Hp /RPM	1/ 1440
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> • Please indicate the detailed list of spares in Technical bid without price. 	

6(4) Portable Belt Sander

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

Ref No. 3/9- Portable Belt Sander		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Portable Belt Sander with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Motor	1/3 HP
1.1.2	Belt Speed	2000 RPM /60Hz ; 1600 Rpm /50hz
1.1.3	Power input	100v /50~60Hz, 120V/60Hz, 230V/50-60Hz
1.1.4	Table	6-1/4 x 8-7/8 inches; Tilt 45 degrees
1.1.5	Mitre Slot	5/8 inch
1.1.6	Sanding pad	6 inch
1.1.7	Sanding belt	4 x 36 inches
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> • Please indicate the detailed list of spares in Technical bid without price. 	

6(5) Horizontal edge Sander

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/10- Horizontal edge Sander		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Horizontal edge Sander with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1	
1.1	Major specifications		
1.1.1	Table Size		2500 x 1250mm
1.1.2	Sanding Belt Linear Speed		17 m/ Sec
1.1.3	Spindle Speed		1440 r/min
1.1.4	Sanding Belt Size		7000 x 152mm
1.1.5	Spindle Power		3 KW
1.1.6	Table Elevation Power		0.55 KW
1.1.7	Dust Collector Power		0.75 KW
2	Colour of Machine : Standard		
3	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine	
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> Please indicate the detailed list of spares in Technical bid without price. 		

6(6) Bobbin Sander

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

Ref No. 3/11- Bobbin Sander		Qty : 4 Nos.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Bobbin Sander with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	4
1.1	Major specifications	
1.1.1	Sanding Bobbin Dia	Min: 50mm Max. 90mm
1.1.2	Maximum Length of material sanded	175mm
1.1.3	Size of Table	600 x 600mm
1.1.4	Stroke of bobbin	20mm
1.1.5	Spindle Motor	1.5 H.P.
1.1.6	Geared Motor	0.5 H.P.
1.1.7	Table Tilt	+45°, - 15°
2	Colour of Machine : Standard	
3	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
4	Set of mechanical and electrical spare parts for 2 year normal operation. (If any) <ul style="list-style-type: none"> • Please indicate the detailed list of spares in Technical bid without price. 	

LOT 7 - Dust Collector & Planer Machine

7(1) : Dust Collector

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/12- Dust Collector		Qty : 2 Nos.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Dust Collector with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2	
1.1	Major specifications		
1.1.1	Motor power		2.2kw
1.1.2	Air Speed		1490CFM/42.15m3/min
1.1.3	Bag capacity		153 ltr
1.1.4	Fan diameter		300 mm
1.1.5	Inlet hose diameter		125 mm
1.1.6	Colour : Standard		
1.1.7	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine

7(2) Dust Collector Portable

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/13- Dust Collector Portable		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Dust Collector Portable with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1	
1.1	Major specifications		
1.1.1	Motor power		3 kw
1.1.2	Air Speed		2300CFM/65.09m3/min
1.1.3	Bag capacity		307 ltr
1.1.4	Fan diameter		305 mm
1.1.5	Inlet hose diameter		150 mm
1.1.6	Colour : Standard		
1.1.7	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine

7(3) Dust Collector for sander

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/14- Dust Collector for sander		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Dust Collector for sander with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1	
1.1	Major specifications		
1.1.1	Motor power		3.75 kw
1.1.2	Air Speed		2300CFM/65.09m3/min
1.1.3	Bag capacity		307 ltr
1.1.4	Fan diameter		305 mm
1.1.5	Inlet hose diameter		150 mm
1.1.6	Colour : Standard		
1.1.7	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine

7(4) Cyclone (Dust Collector)

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar			
Ref No. 3/14- Cyclone (Dust Collector)		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Cyclone (Dust Collector) with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1	
1.1	Major specifications		
1.1.1	Power		7.5 HP
1.1.2	Air flow		3500m3/hr
1.1.3	Colour : Standard		
1.1.4	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.		3 Sets per machine

7(5) Portable Planer Machine

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

Ref No. 3/23- Portable Planer Machine		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Portable Planer Machine with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Surfacing capacity	300 mm
1.1.2	Length of surface table	1800 mm
1.1.3	Cutter block diameter	95 mm
1.1.4	Cutter Block speed	4000 rpm
1.1.5	Standard cutter block	28
1.1.6	Max. Circular saw diameter	300 mm
1.1.7	Power	3 HP
2	Colour : Standard	
3	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine

Lot -8 Drilling Machine

8(1) Drilling Machine (Cap: 25mm)

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

Ref No. 3/16- Drilling Machine (Cap: 25mm)		Qty : 2 Nos.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Drilling Machine (Cap: 25mm) with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Drilling Capacity	25 mm
1.1.2	Morse taper in Spindle	3
1.1.3	Spindle Traverse	140 mm
1.1.4	Distance between centre of spindle and pillar front	≥250 mm
1.1.5	Max. distance between spindle and table	≥600mm
1.1.6	Max. distance between spindle and base	≥1000mm
1.1.7	Number of spindle Speed	5
1.1.8	Table working surface	300 mm dia
1.1.9	Power	1 Hp
2	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
3	Colour of Machine : Standard	
4	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

8(2) Drilling Machine (Cap: 13mm)

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

Ref No. 3/16- Drilling Machine (Cap: 25mm)		Qty : 2 Nos.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Drilling Machine (Cap: 13mm) with all standard accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply / 230V, 1Ph, 50Hz AC supply.	2
1.1	Major specifications	
1.1.1	Drilling Capacity	13 mm
1.1.2	Morse taper in Spindle	1
1.1.3	Spindle Traverse	100 mm
1.1.4	Vertical adjustment of Spindle head	420mm
1.1.5	Distance between centre of spindle and column front	145 mm
1.1.6	Max. distance between spindle and table	300mm
1.1.7	Max. distance between spindle and base	500mm
1.1.8	Number of spindle Speed	4
1.1.9	Range of spindle speed	480-820-1320-2080
1.1.10	Table working surface	200 x 200
1.1.11	Power	0.5 Hp
2	Colour of Machine : Standard	
3	Set of mechanical and electrical spare parts for 2 year normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
4	Operation/ Service/ Spare parts Manual – 2 Sets to be sent along with Machine and 1 Set to HMTI, Bangalore.	3 Sets per machine
5	Items required for E&C to be supplied with the machine:	
5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.	
5.2	Initial fill of Lubrication Oil packed in separate containers & sealed	
5.3	Foundation bolts with leveling plates - 1 set	

Lot -9 Electrical Machine Trainers

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
1.	Sl. No. 1 of Annex. 8	Electrical Machine Trainer	<p>Electrical Machines Trainer set should consist of the following features :</p> <p>Technical Specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility along with essential accessories like shaft coupler and below machines.</p> <p>Each control panel rack should consist of : -</p> <p>a) Input 3 phase DOL Starter panel - 1 No.</p> <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor. • Bimetallic thermal O/L relay. <p>b) Integrated AC (1 phase) measurement panel - 1 No.</p> <ul style="list-style-type: none"> • 1 no. Digital meter for 1 Ph. Parameters V, I, PF, W, VA, VAR, Hz, etc. <p>c) Multifunction 3 Phase Meter - 1 No.</p> <ul style="list-style-type: none"> • Measurement : V, I, Hz, Pf, KVA, KW, KWh • Computer Input : Modbus RTU RS 485 <p>d) FWD/REV, Star-Delta starter panel - 1 No.</p> <p>e) 3 Phase wound Rotor & Sync. Motor panel - 1 No.</p> <ul style="list-style-type: none"> • Rotor resistors with selector switch. <p>f) 1 Phase Motor, Alternator & Sync. Motor Panel - 1 No.</p> <ul style="list-style-type: none"> • Selector switches to run as 1ϕ alternator then as synchronous motor. <p>g) DC voltmeter and DC ammeter panel - 1 No.</p> <ul style="list-style-type: none"> • DC voltmeter • DC Ammeter <p>h) SCR Actuator (variable DC) cum sensor signal conditioning panel - 3 Nos.</p> <p>i) Instrumentation Power supply cum Multichannel DPM panel - 1 No.</p> <p>j) Resistor Load Panel - 1 No.</p> <p>k) LC Load panel - 1 No.</p> <p>l) Computer Interface panel connects to PC USB port using USB IO module. Software on CD: Virtual Workbench package (USB / serial modbus based) software working on windows dot Net platform coupled with USB IO module – 1 No.</p> <p>m) Synchronizaion Panel: Test gear for Synchronising of 2Nos. of 3 phase Generator (3 phase AC machines).</p> <p>n) Machine set should consists of following machines:</p> <ul style="list-style-type: none"> • DC Integrated machine - 1 No. Capacity / RPM: 300 W / 1500 RPM. It should be used as Dynamometer with torque & speed sensors. • 3 Phase AC Integrated chassis mounted m/c - 1 No. Capacity / RPM : 300 W / 1500 RPM. • 1 Phase AC Integrated chassis mounted m/c - 1 No. 	1 set

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>Capacity / RPM : 300 W / 1500 RPM.</p> <ul style="list-style-type: none"> • 1 Phase AC Integrated generator & Synchronous m/c - 1 No. Capacity / RPM : 300 W / 1500 RPM. • Universal Motor AC/DC integrated, chassis mounted - 1 No. Capacity / RPM : 300 W / 1500 RPM. • 3 phase squirrel cage motor , 2 speed chassis mounted - 1 No. Capacity / RPM : 300 W / 1500 RPM • Repulsion Motor chassis mounted - 1 No Capacity / RPM: 300 W / 1500 RPM. • 3 Phase Salient Pole alternator – 1 No. Capacity / RPM: 300 W / 1500 RPM <p>Following Essential accessories should be provided with trainer:</p> <p>A. Hand held tacho meter – 1 No. B. Patch cords – 50 Nos. C. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. D. Demo CD to help student to work by themselves – 1 No. E. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
2	Sl. No. 3 of Annex. 8	3 Phase AC Motor Fault Simulator	<p>The 3 Phase AC Motor Fault Simulator should have following features :</p> <p>Technical Specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>It should consists of :</p> <ol style="list-style-type: none"> a) Input 3 phase DOL Starter panel – 1 No. <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor. • Bimetallic thermal O/L relay. b) AC voltmeter panel – 1 No. c) AC Ammeter panel – 1 No. 	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>d) Integrated AC (3/1 phase) measurement panel (Digital) - 1 No.</p> <p>e) FWD/REV, Star-Delta starter panel – 1 No.</p> <p>f) 3 Phase sequence indicator Panel – 1 No. For determination of over voltage, under voltage, single phasing and reverse phasing / Displays OV, UV, SP, RP on digital display</p> <p>g) Single Phasing Panel – 1 No.</p> <p>h) Grounding & Protection Panel – 1 No.</p> <p>i) 3 Phase Induction Motor Fault Simulator Panel – 1 No.</p> <p><u>Motor Specifications :</u> 3 phase squirrel cage induction motor, 0.5 HP, 4 pole, 1500 RPM, 6 terminal (delta 220 Vac / star 440 Vac) motor with built in thermal cutout (NC contact).</p> <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig.</p> <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
3	Sl. No. 5 of Annex. 8	Electrical Control Trainer	<p>The Electrical Control Trainer should have following features:</p> <p><u>Technical Specifications :</u> Basic Resources on Top board :</p> <p>a) Built in power supply</p> <p>b) Display Analog Meter – 2 Nos. i) Centre zero for display of process error (+9V) ii) For MV/SP (0-2.5V)</p> <p>c) Operating voltage Switch selectable</p> <p>d) Computer Interface Adapter for monitoring</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>e) Software P4 / XP / Parallel port based, data acquisition cum monitoring interface adaptor to study closed loop dynamics.</p> <p><u>Experiment Panels:</u></p> <p>a) Potentiometric error detection cum magnetic amplifier interface panel Onboard Transformer – 2 Nos.</p> <p>b) Potentiometric error detector</p> <ul style="list-style-type: none"> • Facility to study error under AC supply as well as DC supply application. <p>c) Diode Demodulator to convert AC error signal into DC error to control magnetic amplifier.</p> <p>d) Connector to interface with AC servo motor from AC servo position Control & Connector to interface with synchro command station.</p> <p>e) Variable control voltage for plotting Magnetic amplifier characteristics.</p> <p>1. AC servo position Control</p> <ul style="list-style-type: none"> • AC geared servo motor • Sensor : 1 No. of Servo pot, Synchro Control Transformer. <p>2. Synchro Transmitter Receiver</p> <ul style="list-style-type: none"> • Sensor: 1 No. servo pot <p>3. Magnetic Amplifier</p> <ul style="list-style-type: none"> • Magnetic Amplifier with Bias & Error winding & Load winding and loading resistor. • Sensor: Loading resistor. <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics.</p> <p>2. Circuit drawings of complete Test Rig.</p> <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
4	Sl. No. 6 of	Electrical Trainer	The Electrical Trainer should have following features :	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
	Annex. 8		<p>Technical Specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>It should consists of :</p> <p>i) Single phase Transformer of 300 VA – 2 Nos. Primary: 0 -230 V Secondary: 200 V</p> <p>ii) Three phase Transformer of 300 VA – 1 No. Primary: 0 -415 V Secondary: 220 V</p> <p>List of panels :</p> <p>a) Input 3 phase DOL starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor. • Bimetallic thermal O/L relay. <p>b) 3 Ph. Digital Multifunction measurement panel</p> <ul style="list-style-type: none"> • Measurement of V, I, Hz, Pf, KVA, KW, KWH • Modbus RTU RS 485 <p>c) Integrated (1 Ph.) Multifunction measurement panel</p> <ul style="list-style-type: none"> • Measurement of V, A, Hz, PF, KW, KVA, KVAr, Energy. <p>d) FWD/REV, Star-Delta starter panel FWD/REV, 3 pole 3 way switch with centre OFF.</p> <p>e) 1 ph. AC Input Panel</p> <p>f) AC voltmeter panel AC voltmeter for three phase voltage measurement by selector switch.</p> <p>g) AC Ammeter panel AC Ammeter for three phase current measurement by selector switch.</p> <p>h) Resistive Load</p> <ul style="list-style-type: none"> • AC Resistors • DC Resistors <p>i) Lamp Load Panel Each panel consists of 3 bulbs with individual ON/OFF.</p> <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p>	

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.	
5	Sl. No. 7 of Annex. 8	3-Phase Induction Motor Speed Control Trainer	3 Phase Induction Motor Speed Control Trainer should have the following features: Technical Specifications : Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility. a) 1 Φ Motor, Alternator & Sync. Motor Panel 1 Φ MCBs, bulb load. b) Integrated AC (1 phase) measurement panel <ul style="list-style-type: none"> Digital meter for 1 ph. parameters V, I, PF, W, VA, VAR, Hz, etc. c) AC voltmeter panel d) AC ammeter panel e) IGBT Controlled AC Drive panel <ul style="list-style-type: none"> Range (Frequency Control) : 0.1 Hz to 100 (400)Hz Capacity : 0.5 HP f) Motor specifications : <ul style="list-style-type: none"> 3 phase squirrel cage induction motor, 0.5 HP, 1500 RPM, 6 terminal (delta 220Vac/star 440Vac) motor foot mounted on chassis, brake pulley and drive panel with Hand held Tachometer for speed measurement Accessories: Eddy brake for loading with the panels for DC measurement, Torque & Speed measurement List of Experiments : <ol style="list-style-type: none"> Study of Speed-Torque Characteristics of 3 Ph. Squirrel Cage Induction Motor & to verify constant v/f ratio. Study of Efficiency of AC Motor. Study of Speed-Torque Characteristics of AC Motor. Following Essential accessories should be provided with trainer: <ol style="list-style-type: none"> Hand held tacho meter – 1 No. Patch cords – 50 Nos. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. Demo CD to help student to work by themselves – 1 No. Set of spare parts recommended for two years normal operation. List of 	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
6	Sl. No. 8 of Annex. 8	3-Phase Induction Motor Fault Simulator	<p>The Motor Fault Simulator Trainer should have following features :</p> <p>Technical Specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>It should consists of :</p> <ol style="list-style-type: none"> a) Input 3 phase DOL Starter panel <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor. • Bimetallic thermal O/L relay. b) AC voltmeter panel <ul style="list-style-type: none"> • AC voltmeter for three phase voltage measurement by selector switch. c) AC Ammeter panel <ul style="list-style-type: none"> • AC Ammeter for three phase current measurement by selector switch. d) Integrated AC (3/1 phase) measurement panel <ul style="list-style-type: none"> • Digital meter for measurement of 3ϕ & 1ϕ parameters. • Voltage line to line & line to neutral. • Current for all 3ϕ. • Power factor, frequency, watts, VAR, VA and energy in Kw/hr. e) FWD/REV, Star-Delta starter panel <ul style="list-style-type: none"> • FWD/REV, 3 pole 3 way switch with centre OFF. f) 3 Phase sequence indicator Panel g) Single Phasing Panel <ul style="list-style-type: none"> • Three single-phase fault switches (DPST) h) Grounding & Protection Panel i) 3 Phase Induction Motor Fault Simulator Panel <p>Motor Specifications :</p> <p>3 phase squirrel cage induction motor, 0.5 HP, 1500 RPM, 6 terminal (delta</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>220 Vac/star 440Vac) motor with built in thermal cutout (NC contact). Fault simulator built on the panel. Toggle switches to introduce faults.</p> <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics.</p> <p>2. Circuit drawings of complete Test Rig.</p> <p>Work Table:</p> <p>Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
7	Sl. No. 9 of Annex. 8	Power Transmission Line Trainer	<p>The Transmission line Trainer should consist of following features :</p> <p>Technical Specifications of interfacing panels:</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>a) Input 3 phase DOL Starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor • Bimetallic thermal O/L relay <p>b) FWD-OFF-REV, Switch Panel</p> <p>FWD/REV, 3 pole 3 way switch with center OFF.</p> <p>c) 3 Phase Bidirectional Power cum Energy meter panel</p> <ul style="list-style-type: none"> • Measurement of V, I, Hz, Pf, KVA, KW, KWH. • Modbus RTU RS 485 connections. <p>d) VAR Compensation panel (dual panel)</p> <p>Should consist of VAR compensating capacitors of different values with switch for selection.</p> <p>e) Transmission line Panel – Table Top Panel</p> <ul style="list-style-type: none"> • Simulated model for transmission line (250 kms) • Simulated model for medium/long length transmission line for Pi model. • Simulated model for medium/long length transmission line for T model • 2 transmission line panels supplied to simulate up to 500 kms length. 	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>f) RLC load panel – Table Top Panel</p> <ul style="list-style-type: none"> • Resistors with switch for selection of values. • Inductors with switch for selection of values. • Capacitors (one per phase) with switch for selection of values. <p>g) 3 phase dimmer/variator panel – Table Top Panel</p> <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics.</p> <p>2. Circuit drawings of complete Test Rig.</p> <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
8	Sl. No. 10 of Annex. 8	Electrical Power Generation set up	<p>The Electrical Power Generation Trainer set should consist of the following features :</p> <p>Technical Specifications of interfacing panel rack</p> <p>a) Input 3 phase DOL starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor. • Bimetallic thermal O/L relay <p>b) FWD/REV, Star-Delta starter panel 3 pole 3 way switch with center OFF.</p> <p>c) Instrumentation Power supply cum Multichannel DPM panel</p> <p>d) SCR Actuator (variable DC) cum sensor signal conditioning panel.</p> <p>e) Rotor Resistance cum 3 phase Synchronous Motor Control Panel</p> <ul style="list-style-type: none"> • Rotor resistors with selector switch • DC Rotor excitation over current relay <p>f) DC voltmeter and DC ammeter panel</p> <ul style="list-style-type: none"> • DC voltmeter • DC Ammeter with polarity protection diode <p>g) Integrated AC 3 phase measurement panel Digital meters to measure V, I, PF, Hz.</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>h) Table Top Panels, M/c's Key Resource Trunnion mounted DC integrated machine 300W coupled to 3 phase salient pole alternator, 300VA, 415VAC, 50Hz.</p> <p>i) Resistor Load Panel</p> <ul style="list-style-type: none"> • AC Resistors • DC Resistors <p>j) LC Load Panel</p> <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig.</p> <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
9	Sl. No. 12 of Annex. 8	Distance Protection Relay Trainer	<p>The Distance Protection Relay Trainer set should consist of the following features:</p> <p>Technical Specifications: Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>Should consist of :</p> <p>a) Input 3 phase DOL Starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor. • Bimetallic thermal O/L relay • Separate NO contact & NC. <p>b) 1 phase AC Input supply panel</p> <ul style="list-style-type: none"> • MCBs • Bulb Load. <p>c) 3 Phase Bidirectional Multifunction Power cum Energy meter panel</p> <ul style="list-style-type: none"> • V, I, Hz, Pf, KVA, KW, KWH. • Modbus RTU RS 485 connections 	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>d) Distance Relay Panel</p> <ul style="list-style-type: none"> • 2 NO Trip contacts, 1 NC Trip contacts, 1 NO Auto reclose contact. <p>e) CT panel</p> <ul style="list-style-type: none"> • CT - 6 Nos. <p>f) Star/Star Step Down Transformer Panel</p> <p>g) FWD-OFF-REV, Switch Panel</p> <ul style="list-style-type: none"> • 3 pole 3 way switch with center OFF, 6A/440V. <p>h) Transmission line Panel - Table Top Panel consisting of :</p> <ul style="list-style-type: none"> • Simulated model for short transmission line using R, L & C. • Simulated model for medium length 125kms & long length 250kms transmission line. • Forced Air cooled. <p>i) Resistive Load panel - Table Top Panel consisting of :</p> <ul style="list-style-type: none"> • Resistors with switch for selection of different values • Forced Air cooled. <p>j) Protection relay type (Numerical) :</p> <ul style="list-style-type: none"> • Numerical type distance protection relay • RS232 port for PC communication, relay setting with software on CD, RS232 to USB converter for USB interface. <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch chord – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics.</p> <p>2. Circuit drawings of complete Test Rig.</p> <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
10	Sl. No. 13 of Annex. 8	Feeder Protection Relay Trainer	<p>The Feeder Protection Relay Trainer should consist of the following features:</p> <p>Technical Specifications: Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>Technical details :</p> <p>a) Input 3 phase DOL Starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB • DOL Contactor • Bimetallic thermal O/L relay <p>b) 1 phase AC Input supply panel</p> <ul style="list-style-type: none"> • MCBs • Bulb Load. <p>c) Variable voltage & current injector panel - 3 Nos.</p> <ul style="list-style-type: none"> • 1 phase dimmer • Short circuit transformer <p>d) 3 Phase Multifunction Power cum Energy meter panel</p> <ul style="list-style-type: none"> • V, I, Hz, Pf, KVA, KW, KWH. • Modbus RTU RS 485 <p>e) Over current & elapsed time measurement panel - 3 Nos.</p> <ul style="list-style-type: none"> • AC ammeter • Elapsed time counter <p>f) FWD-OFF-REV, Switch Panel</p> <ul style="list-style-type: none"> • 3 pole 3 way switch with center OFF. <p>g) Variable voltage panel - 3 Nos.</p> <ul style="list-style-type: none"> • 1 phase dimmer <p>h) CT panel</p> <ul style="list-style-type: none"> • CT 6 Nos. <p>i) Star/Star Step Down Transformer Panel</p> <p>j) Feeder Manager Relay Panel</p> <ul style="list-style-type: none"> • USB port for PC communication, relay setting with software on CD. <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics.</p> <p>2. Circuit drawings of complete Test Rig.</p> <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness)</p>	

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.	
11	Sl. No. 18 of Annex. 8	Double Bus Bar Trainer	<p>The Double Bus Bar Trainer should have following features :</p> <p>Technical Specifications</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>It should consists of :</p> <p>a) Input 3 phase DOL Starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB. • DOL Contactor • Bimetallic thermal O/L relay <p>b) Phase Bidirectional Power cum Energy meter panel</p> <ul style="list-style-type: none"> • Should measure V. I., Hz, Pf, KVA, KW, KWH <p>c) 24V Aux power supply panel.</p> <p>d) In feeder Panel</p> <ul style="list-style-type: none"> • 3-isolator switches, Circuit breaker, Main bus, Reserve bus, Feeder. <p>e) Bus Coupler Panel - 2 Nos.</p> <ul style="list-style-type: none"> • Consisting of Circuit breaker, Main bus, Reserve bus. <p>f) Out feeder Panel</p> <ul style="list-style-type: none"> • 4-isolator switches, Circuit breaker, Main bus, Reserve bus, Transfer bus / Earth switch, Feeder. <p>g) Section Coupler Panel.</p> <ul style="list-style-type: none"> • 2 Circuit breakers, Main bus, Reserve bus. <p>h) Transmission line panel</p> <ul style="list-style-type: none"> • 2 Transmission lines of 0.3pu for 125Km. • 2 Transmission lines of 0.2pu for 75Km. • 1 Transmission line of 0.13pu for 50Km. <p>i) RLC load Panel</p> <ul style="list-style-type: none"> • Resistors, Inductors & Capacitors with switch for selection of difference values <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.	
12	Sl. No. 22 of Annex. 8	Stepper Motor Trainer	Stepper motor Trainer should have the following features : <ul style="list-style-type: none"> • Built in Power Supply • DC Supply • AC Supply • Built in Function Generator O/p Waveform : Sine, Triangle & TTL O Output Frequency: 1 Hz to 1MHz • Clock Generator : 10 MHz TTL clock. • Data Switches (10 No.) & LED status indicators for High/Low indication. • Pulser switches • BNC to 2 channel banana adapter - 2No. • Logic probe to detect High/Low level pulses upto 1MHz, & LED status indicators for High/Low indication. • 7 segment display. • Onboard DPMs mode/range selection. • Onboard moving iron meters provided for AC Current AC Voltage • Onboard speaker • Onboard POTS Stepper Motor Demonstrator Expt. Panel Control of direction, Step rate, Auto / Manual operation of stepper motor in half / full / wave stepping modes / current chopper mode. Following Essential accessories should be provided with trainer: <ol style="list-style-type: none"> A. Patch cords – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed. NOTE : Following documents are mandatory and are to be submitted along with Technical Bid : <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness)	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.	
13	Sl. No. 141 of Annex. 8	Test Bench	<p>Electrical Table for experiments / Test Bench:</p> <p>Electrical workbench antistatic to enable easy, fast and accurate testing of different Electrical equipment. Three phase 415V / Single phase, 230 Volt, 50 Hz input supply sockets to be provided.</p> <p>Consist of 3 partitions as below:</p> <ol style="list-style-type: none"> 1. Bottom structure: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 – 780 (H) to be comprised of Table Top with antistatic rubber sheet (18mm thickness) and smooth surface finish, MS tubular frame (16 gauge), 2 drawers and castor wheels with locking mechanism so that the table can be easily moved. 2. Middle Cabinet structure of dimension 250 -300mm (H) on top of table top to house power sources and MCBs etc. 3. Top Cabinet structure of dimension 250 -300mm (H) to house different electrical equipment. <p>The following components to be housed in the Electrical workbench</p> <ul style="list-style-type: none"> • Regulated DC power supply: 0 to 25 V minimum • Unregulated DC power supply: 0 to 250 V • Auto transformer: 0 to 415V, Current: 0 to 5A • Single phase multifunction meters: 0 to 230 V, Current: 0 to 5A • Three phase multifunction meters: 0 to 415V, Current: 0 to 5A 	1

LOT: 10 – Electrical Industrial Trainers

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
1.	Sl. No. 2 of Annex. 8	Industrial Control Trainer	<p>The Industrial Control Trainer should have following features :</p> <p>Technical specifications :</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>It should consist of:</p> <ul style="list-style-type: none"> • 4 pole MCB • Wiring panel • Power incomer terminal block • 24 VAC transformer • 24 VDC power supply panel • Circuit breakers panel • Isolating switch panel • Switch disconnecter • Busbar system • Contactor panel • Changeover contactor • Thermal-magnetic circuit breaker • Motor starter with Modbus port • PLC with Modbus port • Power meter with 3 CTs • Control boxes with buttons and indicators • Terminal block for connecting the boxes and limit switches • Limit switches (Sufficient Nos. to be provided) <p>The learning objective behind this setup is to:</p> <ol style="list-style-type: none"> 1. Study and create the various motor starter diagrams: <ul style="list-style-type: none"> • Separation or isolation • Control or switching • Short-circuit protection • Overload protection 2. Learn about the control gear and the different ways to set it up. 3. Create power switching equipment 4. Understand and design control schemes application specific sequences. <p>Following Essential accessories should be provided with trainer:</p> <ol style="list-style-type: none"> A. Patch chord – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed. <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table:</p> <p>Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	1
2	Sl. No. 4	House Wiring /	The House Wiring / Commercial Wiring Installation Trainer Trainer should	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar

Sl. No	Encl. Ref.	Item	Brief Specification	Qty
	of Annex. 8	Commercial Wiring Installation Trainer	<p>have following features :</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <ul style="list-style-type: none"> • Support frame • Circuit breaker module • 16 A circuit breaker module • 16 A/30 mA residual current CB module – 2 nos • Impulse relay module • Impulse relay module (central ctrl) • Prog. timer switch module • Modular contactor module • Two-way switch module - 2 nos • Pushbutton module – 6 nos • Double PB module • 16 A power socket module - 2 nos • 15 W lamp holder module – 5 nos <p>The learning objective behind this setup is to:</p> <ol style="list-style-type: none"> 1. To set up a distribution switchboard 2. To study and wire components in the 1 to 2-room housing kit: <ul style="list-style-type: none"> • 1-pole and 2-pole one-way switches, two-way switches, power socket • series/parallel connections • Wiring new technology combining the traditional wiring methods <p>Following Essential accessories should be provided with trainer:</p> <ol style="list-style-type: none"> A. Patch cords – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed. <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table:</p> <p>Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
3	Sl. No. 11 of Annex. 8	Biased Differential Relay Trainer	<p>The Biased Differential Relay Trainer set should consist of the following features.</p> <p>Technical specifications :</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>Relay testing kit typically consisting of voltage injector, current injector, elapsed time counter, trip relay logic etc</p> <ul style="list-style-type: none"> • Differential relay • Suitable protection using MCB • Current injector • Ammeters • Timer • Start/stop push buttons • Indicators <p>Following Essential accessories should be provided with trainer:</p> <p>A. 3 Phase variac 3 Amp B. Patch cords – 50 Nos. C. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. D. Demo CD to help student to work by themselves – 1 No. E. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
4	Sl. No. 14 of Annex. 8	Over / Under Voltage Relay	<p>The Over / Under Voltage Relay Trainer should consist of the following features:</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <ul style="list-style-type: none"> • Over voltage/under voltage relay • Coil • Contacts • Indicators <p>Following Essential accessories should be provided with trainer:</p> <p>A. 3 Phase 3 Amp. Variac. B. Patch cords – 50 Nos.</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>C. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>D. Demo CD to help student to work by themselves – 1 No.</p> <p>E. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
5	Sl. No. 15 of Annex. 8	Inverse definite minimum time (IDMT) Over Current Relay Trainer	<p>IDMT Over current relay trainer (Numerical) must consist of following features:</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <ul style="list-style-type: none"> • Overcurrent relay • AC ammeter • Timer • Start/stop push button • Dimmer • Suitable protection using MCB • Variable AC source • Connections brought on the plate for connections <p>Following Essential accessories should be provided with trainer:</p> <ol style="list-style-type: none"> A. Patch cords – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed. <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			to be supplied. Work table to be comprised of Table Top (18 mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.	
6	Sl. No. 16 of Annex. 8	Over / Under Frequency Relay Trainer	<p>Over/Under frequency Relay Trainer should consist of the following features:</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <ul style="list-style-type: none"> • Frequency relay • Coil • Frequency meter • Suitable system protection <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table:</p> <p>Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	1
7	Sl. No. 17 of Annex. 8	Power Factor Control Relay Trainer	<p>Power Factor Control Relay Trainer should have features:</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>Measurement of Power Factor at Resistive (R) Load, Resistive and Inductive (R-L) Load, Resistive and Capacitive (R-C) Load, Resistive, Inductive and Capacitive (R-L-C) Load</p> <ul style="list-style-type: none"> • Equipped with inbuilt R, L and C load required for experiment • Microcontroller based Measurement unit with high accuracy and resolution 	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<ul style="list-style-type: none"> Designed by considering all the safety standards Diagrammatic representation for the ease of connections <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p> <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <p>1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics.</p> <p>2. Circuit drawings of complete Test Rig.</p> <p>Work Table:</p> <p>Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
8	Sl. No. 19 of Annex. 8	Solar Technology Trainer	<p>The Solar Technology Trainer should be designed to demonstrate the basics of energy production by solar panels.</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <ul style="list-style-type: none"> Support frame Solar panel Measurement module with voltmeter and ammeter – 1 no. each Charge regulator module equipped with 2 indicators 12 V battery module 12 VDC/230 VAC inverter module 15 W lamp holder module <p>The learning objective of this equipment is to:</p> <ol style="list-style-type: none"> To learn about and identify the components To study, size and install solar panels To study the effect of shading masks <p>Following Essential accessories should be provided with trainer:</p> <p>A. Patch cords – 50 Nos.</p> <p>B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No.</p> <p>C. Demo CD to help student to work by themselves – 1 No.</p> <p>D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed.</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
			<p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	
9	Sl. No. 20 of Annex. 8	Electro hydraulic Trainer	<p>The Electro hydraulic trainer should consist of following features :</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <p>Basic hydraulic components, hydraulic schematic drawings, circuits designing and hydraulic power pack</p> <ul style="list-style-type: none"> • Single acting cylinder • Double acting cylinder • Solenoid valve • Pressure relief valve • Pressure switches • Pressure gauge • Hydraulic power pack <p>Following Essential accessories should be provided with trainer:</p> <ol style="list-style-type: none"> A. Patch chord – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed. <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table: Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	1

Project: "Indo – Myanmar Industrial Training Centre", Monywa, Myanmar				
Sl. No	Encl. Ref.	Item	Brief Specification	Qty
10	Sl. No. 21. of Annex. 8	Electro pneumatic Trainer	<p>The Electro Pneumatic Training should consist of following features:</p> <p>Technical specifications :</p> <p>Powder coated Sturdy aluminum Flat panel system carrying various high voltage components housed in plastic enclosures to minimize shock possibility.</p> <ul style="list-style-type: none"> • Pneumatic-electric interface • Pneumatic limit switch sensor with rollers • Electric limit switch sensor with rollers • Monostable solenoid valve • Bistable solenoid valve • Single-acting cylinder • Double-acting cylinder • Control station • Isolating valve + regulator • Double solenoid valve <p>The learning objective of this equipment is to:</p> <ol style="list-style-type: none"> 1) To study pneumatic and electro-pneumatic technologies 2) To set up and control pneumatic automation system functions. 3) To wire up electro-pneumatic components <p>Following Essential accessories should be provided with trainer:</p> <ol style="list-style-type: none"> A. Patch cords – 50 Nos. B. Well written students workbook explaining at least 5 experiments with instructor guide. – 1 No. C. Demo CD to help student to work by themselves – 1 No. D. Set of spare parts recommended for two years normal operation. List of spare parts to be enclosed. <p>NOTE : Following documents are mandatory and are to be submitted along with Technical Bid :</p> <ol style="list-style-type: none"> 1. Front & Back Panel drawing for detailed layout of Input / Output terminals, Power switches, Metering with schematics. 2. Circuit drawings of complete Test Rig. <p>Work Table:</p> <p>Work Table of dimension approximately 1200 – 1250 mm (L) x 600 – 650 mm (W), 740 - 780 (H) with powder coated suitable to mount above trainer to be supplied. Work table to be comprised of Table Top (18mm thickness) with smooth surface finish, MS tubular frame (16 gauge), 3 drawers and castor wheels with locking mechanism so that the table can be easily moved.</p>	1

Lot-11 Hand Tools

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
1	9	52	6	Adjustable Wrench	Made of forged steel, Length: 250mm	6
2	5	18	6	Allen key Set	Made of steel Hexagonal short pattern Allen keys of sizes 2, 3, 4, 5, 6, 8 & 10 mm of steel with black finish, One Set consisting of 7 Nos.	6
3	8	42	2	Allen key Set	Made of steel Hexagonal short pattern Allen keys of sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10, 11, 12 & 14mm of steel with black finish, One Set consisting of 12 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	2
4	7	68	20	Allen key Set of 12 pieces	Made of steel Hexagonal short pattern Allen keys of sizes 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10, 11, 12 & 14mm of steel with black finish, One Set consisting of 12 Nos.	20
5	6	73	2	Arbor Press	Max. Pressure Exerted: 1 Ton Distance from center to back: 170 mm Height from Base to Guide: 340mm Size of Arbor (Square): 38 mm	2
6	7	46	1	Arbor Press Hand operated	Max. Pressure Exerted: 1/2 Ton	1
7	9	34	6	Beam Trammels	Made of steel, hardened & ground of beam sizes 265 mm, 365 mm and 520 mm with attachments The Set consisting of 3 Nos	6 sets
8	8	48	2	Bearing Puller	Made of forged steel, 3 leg, Dia. 12 inch Make: Best Indian make	2
9	4	96	2	Bench Vice	Made of cast iron, heavy duty bench vice and 75 mm jaw Make:Ambika/Netco	2
10	4	97	2	Bench Vice	Made of cast iron, heavy duty bench vice and 120 mm jaw Make:Ambika/Netco	2
11	6	63	2	Bevelled Edge	Blade Length 100 mm	2
12	8 4 7 9	40 81 92 50	3 2 4 4	Blow Lamp	Made of Brass and capacity 0.5 litre Make: Best Indian Make	13

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
13	4	82	2	Blow Lamp	Made of Brass and capacity 1 litre Make: Best Indian Make	2
14	5	27	4	Box Spanner	Made of steel tubing chrome polished of sizes 6 to 32 mm Set. One Set consisting of 12 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	4
15	8	38	1	C Clamps Set	Made of forged steel with powder coating finish of following maximum opening sizes of 55,105,155 and 205 mm. One Set consisting of 4 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	1
16	4	65	4	Caliper odd leg spring joint	Made of steel with suitable graduation length 150mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4
17	4	64	4	Caliper spring inside	Spring caliper made of steel, points to be hardened of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4
18	4	63	4	Caliper spring joint outside	Spring caliper made of steel, points to be hardened of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4
19	9	32	6	Calipers & Dividers - lot	Made of steel, points to be hardened of following types & sizes. a. Spring caliper outside 150 mm b. Spring caliper inside 150 mm c. Spring divider 150 mm d. Firm joint caliper outside 150 mm e. Firm joint caliper inside 150 mm f. Jenny caliper 150 mm g. Wing compass 150 mm. One Set consisting of 7 Nos	6 sets
20	9	44	2	C Clamps Set	Made of forged steel with powder coating finish of following maximum opening sizes of 55,105,155 and 205 mm. One Set consisting of 4 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	2 sets
21	5	12	10	Centre Punches	Made of high grade steel with deep knurling on the body for grip of size of Tip length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	10
22	6	82	10	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	10
23	8	118	8	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip dia 4 mm & length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	8
24	4	66	4	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	4
25	7	61	6	Centre Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip dia 10 mm & length 100 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	6
26	4	150	1	Chalkboard	Portable wall mounting type Green Chalkboard of size 1200x1800mm with accessories like wall mounting brackets, duster, chalk piece boxes..etc.	1

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
27	5 6	16 111	6 20	Chisel	Made of steel, heat treatment for cutting edges / striking end of flat 1 inch.	26
28	6	112	20	Chisel	Made of steel, heat treatment for cutting edges / striking end of cross cut ½ inches.	20
29	6	113	20	Chisel	Made of steel, heat treatment for cutting edges / striking end (Half round) of size 10 x 250 mm Length	20
30	8	41	3	Chisel	Made of steel, heat treatment for cutting edges / striking end of following types a. Flat: 100 mm length x 6 mm cutting edge width - 1 No b. Flat: 100 mm length x 12 mm cutting edge width - 1 No c. Flat: 100 mm length x 18 mm cutting edge width - 1 No d. Flat: 100 mm length x 24 mm cutting edge width - 1 No e. Flat : 100 mm x 32 mm cutting edge width – 1 No The Set consisting of 5 Nos. Make:Taparia/Ambica/Eastman / Netco (ISO)	3 Sets
31	6	114	20	Chisel	Diamond point 10 x 200mm	20
32	7	60	6	Chisel cold flat	Assorted size	6
33	4	59	4	Chisel flat	Made of steel, heat treatment for cutting edges / striking end of sizes 150mmX13mm cutting edge Make:Taparia/Ambica/Eastman / Netco (ISO)	4
34	9	58	2	Chisel Punch set	Made of steel of sizes 2, 3,4,5,6 & 8 mm. The Set consisting of 6 Nos.	2 sets
35	9	71	24	Chisels for slag removal	Made of steel, heat treatment for cutting edges / striking end of Flat shape of sizes 200 mm length x 25 mm cutting edge width	24
36	5	19	6	Circlip plier set	Made of steel, hardened & tempered with holding capacity of 19-60 mm, internal and external type with straight & bent noses of length 180 mm. One Set consisting of 4 Nos.	6
37	7	69	20	Circlip Plier set (Ext. & Int.)	Made of steel, hardened & tempered with holding capacity of 19-60 mm, internal and external type with straight & bent noses of length 150 mm & 200 mm. One Set consisting of 4 Nos.	20
38	5	17	6	Cold chisel	Made of steel, heat treatment for cutting edges / striking end of cross cut ½ inches.	6
39	9	56	2	Combination pliers	Made of steel drop forged, hardened & tempered and perfect grip of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	2

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
40	5	14	2	Copper Hammer	Copper faced 40 mm dia, 1 Kg., length 305 mm fitted with seasoned wooden handles Make:Taparia/Ambica/Eastman / Netco (ISO)	2
41	8	51	8	Crimping Tool set	Crimping tool of following types & sizes. a. Bootlace terminal crimp tool With spring opening action – 1 No b. D-sub/Double D service tool - 1No c. Heavy duty crimp Ratchet crimper with non Insulated terminal of 16mm Square – 1 No d. Heavy duty crimp tool with ratchet crimper with non insulated terminal of 8 mm square – 1 No The set consisting of 4 Nos.	8
42	8	67	8	Desoldering Gun	De Soldering gun, operating with 230 V AC built in motor, vaccum pump, temp control circuit, Temp range 250-450 deg with ceramic heating element and along with standard accessories. Make:Taparia/Ambica/Eastman / Netco (ISO)	8
43	9	47	12	Diagonal Nipper	Made of steel, hardened & tempered of size 150 mm fitted with cushioned insulated grip handles	12
44	9	59	2	Diamond point Chisel set	Made of steel, heat treatment for cutting edges / striking end of size 150 mm length x 20 mm diamond point cutting edge Make: Taparia/Ambica/Eastman/ Everest or ISI marked	2
45	8	59	8	Divider	Made of steel, points to be hardened of Spring type divider 150 mm. outside Make:Taparia/Ambica/Eastman / Netco (ISO)	8
46	5 6	34 119	6 6	Divider Spring	200 mm Taparia/Ambica/Eastman/Netco (ISO)	12
47	4	62	4	Divider Spring joint	Made of steel points to be hardened of Length 150 mm outside Make:Taparia/Ambica/Eastman / Netco (ISO)	4
48	8	143	3	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
49	7	105	1	Double open end Tappet spanner		1 set
50	7	106	20	Drift copper		20
51	6	86	5	Drill chucks	With key and fully hardened and ground, 1.5 - 13 mm capacity, jaws are to be centre ground for alignment and concentricity, key holes and teeth are to be hardened.	5
52	9	48	6	Electric Soldering Iron	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 200W – 6 Nos. fitted with Copper tip	6
53	5 6 9	65 62 42	6 6 6	Engineer Try square	Assorted sizes	18

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
54	9	36	6	Engineering Parallels	Assorted sizes	6
55	9	33	6	Engineering Scribes	Made of Steel of following types, one number each. Dimensions are in mm. Type Dia length a. straight head - 4 150 b. Angled head - 4 150 One Set consisting of 2 Nos.	6
56	7	73	6	Engineering Square	Made of steel, hardened & ground and Graduated in metric - 200 mm length	6
57	9	35	6	Engineering straight edges	Made of steel of following sizes Length Width Thickness a. 150 mm 35 mm 6 mm b. 300 mm 35 mm 6 mm c. 400 mm 35 mm 6 mm d. 600 mm 35 mm 6 mm The Set consisting of 6 Nos.	6
58	4	56	1	Engineers rule	Made of Stainless steel, graduation in metric of size 300mm.	1
59	4	74	2	Engineers square	Made of steel, hardened & ground, graduated in Metric of size 200 mm long	2
60	6	116	20	File card	For cleaning and chips removal from hand files	20
61	4	72	4	File flat fine double cut	Hand file, length 150 mm and second cut fitted with handles	4
62	4	68	4	File flat medium double cut	Flat file, bastard & smooth, one each number of length 150 mm fitted with handles.	4
63	4	70	4	File half round fine double cut	Round file, bastard & smooth 10 nos each of length 150 mm fitted with handle. Make: Taparia/Ambica/Eastman/JK	4 sets
64	4	69	4	File half round medium double cut	Round file, bastard & smooth 10 nos each of length 200 mm fitted with handle. Make: Taparia/Ambica/Eastman/JK	4 sets
65	4	71	4	File round fine double cut	Round file, bastard & smooth 10 nos each of length 150 mm fitted with handle. Make: Taparia/Ambica/Eastman/JK	4 sets
66	4	73	4	File square fine double cut	Square file, bastard & smooth 10 nos each of length 150 mm fitted with handle. Make : Taparia/ Ambica/Eastman/JK	4 sets

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
67	8	65	8	Files	Files with following cross sections and lengths fitted with handles. k. Flat Bastard- 150 /350 mm l. Flat smooth -150 /350 mm m. Half round Bastard-150/350mm n. Half round Smooth- 150/350mm o. Square Bastard- 150/350mm p. Square Smooth- 150/350mm q. Round Bastard- 150/350mm r. Round Smooth- 150/350mm s. Triangular Bastard- 150/350mm t. Triangular Smooth- 150/350mm One Set consisting of one each of 20 Nos. Make: JK/Yamayo (ISO)	8
68	8	124	8	Firmer chisel wood	Made of steel of size 12mm and fitted with suitable handle Make: FISHER/MARK	8
69	6	79	10	Flat scrapers	Fitted with handle of size 20 mm width and 200mm length	10
70	8	44	2	Grease Gun	Lever type big with working pressure of 310 bar, 14 oz capacity Make: Prima / Groz	2
71	4 6 7 9 8 5	60 84 77 46 55 22	4 6 50 12 8 6	Hack saw frame with blades	Tubular, size 300mm, , adjustable, bow epoxy powder coated, 8mm square fitting with wing nut, fitted with handle and each unit to be supplied with 20 numbers of blades. Make: NETCO	86
72	7	59	6	Hammer ball pin	Assorted shape and size	6
73	4	53	4	Hammer ball pin	Ball pein – 0.45 Kg. with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	4
74	4	54	4	Hammer ball pin	Ball pein – 0.22 Kg. with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	4
75	7	72	6	Hammer – Copper with handle	Copper faced 40 mm dia, 1 Kg., length 305 mm fitted with seasoned wooden handles Make:Taparia/Ambica/Eastman / Netco (ISO)	6
76	4	55	4	Hammers - Nylon	Nylon- 300 gms with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	4
77	8	54	8	Hammer set - Steel	Forged steel, hardened & tempered with wooden handles of following types: a.flat face dia 40mm – 1 No b.Ball peen face dia 30 mm – 1 No c.Cross peen face dia 30 mm- 1 No The Set consisting of 3 Nos Make: PYE / AMBIKA / EASTMAN	8
78	9	43	2	Hammering block	50 mm (Height) x 60 mm (length) x 60 mm (Width)	2
79	8	123	8	Hammers - Nylon	Nylon- 450 gms with Handle. Make :Taparia/Ambica/Eastman/Netco (ISO)	8
80	4	85	1	Hand blower portable	Hand blower portable complete 1/10 HP	1

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
81	7	65	2	Hand file second cut	Hand file, length 200 mm and second cut fitted with handles	2
82	9	70	24	Hand Gloves	Material :Leather Make: ESCORTS / JAINCO	24
83	7	86	10	Hand reamer, adjustable	Assorted sizes	10
84	6	81	10	Hand vice	Made of steel of minimum size 75 mm	10
85	7	82	2	Hand vice	Made of steel of minimum size 37 mm	2
86	9	57	2	Hollow Punch set	Made of steel, length 100mm of hole size dia 6mm.	2
87	5	73	1	Illuminated Magnifier	Flexible arm illuminated magnifier – Circular tube light mounted around precision glass lens of 130 mm dia. Feather touch spring Balanced stand. Suitable for inspection up to magnification 10 x	1
88	6	54	5	Illuminated Magnifiers	Flexible arm illuminated magnifier – Circular tube light mounted around precision glass lens of 130 mm dia. Feather touch spring Balanced stand. Suitable for inspection up to magnification 10 x	5
89	8	58	8	Insider caliper	Spring caliper inside of high quality steel, points to be hardened of size 150 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	8
90	8	119	8	Knife Electrician	Electrician knife standard type 18x100 mm with 8 segment blade Indian Make: Best Indian	8
91	4	105	4	Knife folded	Folded – Stainless Steel 150mm	4
92	6	75	5	Letter Punch	Made of steel, 27 pieces of A-Z and letters of sizes 3 mm and 6 mm One set consisting two sizes	5
93	5	24	4	Letter Punches	Made of steel, 27 pieces of A-Z and letters of sizes 3 mm and 6 mm One set consisting two sizes	4
94	4	103	4	Line tester	500 volts heavy duty	4
95	6	58	4	Magnetic V-block	Assorted	4
96	5	37	2	Magnetic V-block	Assorted	2
97	7	91	20	Mallet (Plastic)	Mallet Plastic 30 mm with handle	20
98	7	90	20	Mallet (wooden)	Wooden mallet of dia 40 mm fitted with seasoned wooden handles	20

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
99	8	53	8	Mallet wooden	Wooden mallet of dia 40 mm fitted with seasoned wooden handles Make:Taparia/Ambica/Eastman / Netco (ISO)	8
100	4	75	2	Marking Block universal spindle	200 mm	2
101	8	164	1	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"> ➤ Brush holder ➤ Shaft ➤ Insulating paper ➤ Commutator ➤ Bearings with assembly manual ➤ Carbon brush ➤ Rotor ➤ Copper coil Body 	1
102	7	95	5	Nose pliers set of round/straight	Made of Steel, shapes of round and straight of sizes 150 mm & 200mm. One Set consisting of 4 Nos.	5
103	6	76	5	Number Punch	Made of steel, 9 pieces of Nos 0-8 and Sizes 3 mm and 6 mm One set consisting of two sizes	5
104	5	23	4	Number Punches	Made of steel, 9 pieces of Nos 0-8 and Sizes 3 mm and 6 mm One set consisting of two sizes	4
105	8	43	3	Oil can	0.12 litre capacity Make : Netco / Groz	3
106	7	110	4	Oil can	0.5 litre capacity Make : Netco / Groz	4
107	4	67	2	Oil can pressure type	1 Liter Capacity Make : NETCO / Groz	2
108	6	97	1	Oil drums, measures & dispensers	Assorted	1
109	6	98	1	Oil Filtering unit	Porta filter	1
110	7	113	20	Oil stones	15 x 53.75 mm Rough & Smooth one each The set consisting of 2 Nos.	20
111	6	87	5	Oil stone	150 x 50 x 25 mm Medium grit	5
112	5	38	6	Oil stones med. Grit	Medium grit of 10 mm Square, Triangular, round sections of one each number One set consisting of 3 Nos. Make: Cumi	6
113	5	39	6	Oil stones med. Grit	Single grit, Medium grade, Aluminium oxide, rectangular section of size150x50x25mm Make: Cumi	6

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
114	8	57	8	Outside caliper	150 mm	8
115	8	166	1	Paper Shearing machine		1
116	6	61	4	Parallel blocks-hardened	Set of Assorted sizes	4
117	4	48	2	Philips Screw Driver	Complete set in leather case	2
118	7	70	10	Philips Screw Driver Type set of 5 pieces	Complete Set in Leather Case Taparia/ Ambica/Eastman/ Everest or ISI marked	10
119	8	126	8	Pincer	150 mm Make: Best Indian make	8
120	8	162	2	Pipe bender for TV antenna work	For the smooth controlled of pipe, upto 180 deg angle pipe size 10 mm	2
121	9	53	2	Pipe cutter	25mm capacity Powergrip / Dayton	2
122	8	70	8	Pipe cutter	25mm and 50 mm capacity One set consisting of 2 Nos. Powergrip / Dayton	8
123	9	54	2	Pipe wrench	Made of steel precision machined gripped teeth on jaws and straight shank, provide firm non slip grip of length 300 mm	2
124	4	32	1	Pipe wrench	Made of steel size 50 to 150 mm Make:Taparia/Ambica/Eastman/Netco(ISO)	1
125	8	72	2	Plane Smoothing cutter	Fully hardened steel cutting blade of size 50 mm Make: Anant / Samrat	2
126	5	15	4	Plastic Hammer		4
127	7	64	2	Plier combination	Combination - 150 mm length Make : Best Indian Make	2
128	4	50	2	Plier combination insulated	Combination - 200 mm length Make : Best Indian Make	2
129	4	52	1	Pliers flat nose	Length 150 mm	1
130	8	116	8	Pliers insulated	Combination, side cutting, long nose 150 mm	8
131	4	51	2	Pliers long nose	Length 200 mm	2
132	8	60	8	Pliers nose-set	150 mm and 200 mm – round & straight	8

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No	Sl. No.	Qty			
133	9	61	4	Plumb bob and Aluminium plumb	Machined & fully polished, removable self centering cord Make: Netco (ISO)	4
134	4	87	1	Plumb weight	200 mm	1
135	7	108	1	Pressure Grease Gun	Lever type big with working pressure of 310 bar, 14 oz capacity Make: Prima / Groz	1
136	7	71	10	Prick Punch	Made of high grade steel with deep knurling on the body for grip of size of Tip dia 4 mm & length 150 mm Taparia/ Ambica/Eastman/ Everest or ISI marked	10
137	4	84	1	Puller 2 legged with flexible arm 300 mm	Made of forged steel, 2 leg, Dia. 12 inch	1
138	4	83	1	Puller 3 legged with flexible arm 120 mm	Made of forged steel, 3 leg, Dia. 5 inch	1
139	8	47	2	Pulley puller	Puller set for removing belt pulley Make:Taparia/Ambica/Eastman / Netco (ISO)	2
140	7	79	2	Punch Hallow set	Made of steel, length 100mm of hole size dia 5 mm, 6mm, 7mm, 8mm, 9mm, 10mm & 12mm. The Set consisting of 7 Nos.	2
141	7	81	10	Punch letters set	Made of steel, 27 pieces of A-Z and letters of sizes 3 mm	10
142	7	80	10	Punch Numbers set	Made of steel, 9 pieces of Nos 0-8 and Sizes 3 mm	10
143	8	46	6	Rawl plug tool & bit	No 6, 8, 10, 12 One set consisting of 4 Nos. Make: Netco	6
144	7	67	20	Ring spanner set of 12 pieces	Made of steel, sizes 10 to 32 mm - set Taparia/ Ambica/ Eastman/ Everest or ISI marked	20
145	9	10	1	Rivetting Machine	Pneumatically operated oil less riveter of stroke length 14 mm	1
146	9	11	1	Rivetting Machine	Hand riveting machine of length 260 mm	1
147	5	13	2	Rubber Hammer	Made of vulcanized synthetic rubber of face dia 50 mm fitted with seasoned wooden handles 1 kg Make: SMITH/NETCO	2
148	7	141	2	Rule Steel	Made of Stainless steel, graduation in both Metric & English of size 300 mm	2
149	6	117	20	Safety goggles	Safety goggles for eye protection clear/plastic	20
150	7	88	20	Safety goggles	Safety goggles for eye protection clear/plastic	20

Lot-12 Set of Hand Tools

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
1	8	122	8	Saw tenon	250 mm length Netco/Xtra Power	8
2	8	50	2	Scissors blade	Industrial scissors of 150 mm length Make: Best Indian	2
3	7	87	10	Scraper flat	Assorted shapes and sizes	10
4	7	63	6	Screw driver	Assorted	6
5	4	49	1	Screw driver plastic handle 3 mm tip length	Made of steel, handle made of Plastic, reversible type 3 x 100mm blade and 3 x 150 mm - insulated Make:Taparia/Ambica/Eastman / Netco (ISO)	1 set
6	4	46	17	Screw driver plastic handle 6 mm tip length	Made of steel, handle made of Plastic, reversible type 6 x 100mm & 6x150 mm lg Make:Taparia/Ambica/Eastman / Netco (ISO)	17
7	4	47	5	Screw driver plastic handle 6 mm tip length	Made of steel, handle made of Plastic, reversible type 6 x 200 & 6 x 250 mm lg Make:Taparia/Ambica/Eastman / Netco (ISO)	5
8	5	21	6	Screw driver set	Made of steel, Phillips type, handle made of plastic with following blade dia and length in mm (sizes) g. Dia 3.0 x 100 – 1 No h. Dia 5.0 x 200 – 1 No i. Dia 8.0 x 250 – 1 No The Set consisting of 3 Nos	6 sets
9	8	117	8	Screw driver set	Made of steel, Phillips type, handle made of plastic with following blade dia and length in mm (sizes) j. Dia 3.0 x 100 – 1 No k. Dia 5.0 x 200 – 1 No l. Dia 8.0 x 250 – 1 No The Set consisting of 3 Nos	8 sets
10	8	120	8	Screw driver with Neon light tester	Screw driver type with neon light indicator of 100 mm length with tip width of 3.5 mm Make:Taparia/Ambica/Eastman / Netco (ISO)	8
11	8	125	8	Scriber	150mm handle and tip Dia 4 mm Make: Best Indian make	8
12	4	61	4	Scriber	150mm handle and tip Dia 4 mm Make: Best Indian make	4
13	7	74	6	Scriber	Assorted sizes and shapes	6
14	7	75	6	Scriber Block Universal	Made of steel base of 4 1/8 x 3 3/8 x 1 1/16 inches , spindle length of 12 inches and dia of scriber 3/8 inches.	6
15	5	28	6	Scribers	Assorted sizes and shapes	6

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
16	5	32	6	Set of Calipers	Made of steel, points to be hardened of following types & sizes. a. Spring caliper outside 150 mm b. Spring caliper inside 150 mm c. Spring divider 150 mm d. Firm joint caliper outside 150 mm e. Firm joint caliper inside 150 mm f. Jenny caliper 150 mm g. Wing compass 150 mm. One Set consisting of 7 Nos	6
17	6	118	6	Set of Calipers	Made of steel, points to be hardened of following types & sizes. a. Spring caliper outside 150 mm b. Spring caliper inside 150 mm c. Spring divider 150 mm d. Firm joint caliper outside 150 mm e. Firm joint caliper inside 150 mm f. Jenny caliper 150 mm g. Wing compass 150 mm. One Set consisting of 7 Nos	6
18	5	29	6	Set of Files	Assorted sizes and shapes	6
19	6	115	20	Set of Files	Assorted sizes and shapes	20
20	6	83	10	Set of Hammers	Nylon- 300 gms /Ball pein – 0.75 Kg./ Cross Pein 115 Gms with Handle. Make: Taparia / Ambica / Eastman/ Netco (ISO)	10
21	9	45	4	Set of Hammers	Nylon- 300 gms /Ball pein – 0.75 Kg./ Cross Pein 115 Gms with Handle. Make: Taparia / Ambica / Eastman/ Netco (ISO)	4
22	7	83	10	Set of Hand files	Assorted sizes	10
23	6	105	1	Set of hand tools	Assorted sizes	1
24	9	86	1	Set of Hand Tools - lot	Assorted sizes	1
25	5	30	6	Set of Steel Ruler	300mm, 600mm and 1000mm – 1 each	6
26	7	89	10	Setting Hammer	Best Indian make	10
27	5	20	6	Side Cutting Plier	Length 150-175 mm Best Indian make	6
28	7	96	2	Snip straight	250 mm	2
29	4	88	1	Snipper sheet metal straight nose	200 mm	1
30	9 8	51 62	12 8	Snips-tin cutter	300 mm	20
31	8	161	2	Socket set	09 Square drive sockets size 4.5 – 12mm, 8” reversible handle, 3” extension bar	2
32	4	35	3	Socket set	reversible ratchet 12.7 mm square drive with extension 4.7 to 31.2 mm	3
33	7	93	2	Soldering iron	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 120 W – 2 Nos. fitted with Copper tip	2

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
34	8	66	8	Soldering iron - set	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with the following capacities fitted with Copper tip 25 W - 8 Nos, 65W - 8 Nos 125W – 8 Nos.	8
35	7	94	2	Soldering Iron Copper set	150 mm & 200 mm	2
36	9	49	6	Soldering Iron Copper tip	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 200 W – 6 Nos. fitted with Copper tip	6
37	4	79	2	Soldering Iron exchangeable copper tip 65 watts	Soldering Iron complete unit, operating with 230V bits, AC 50 Hz, with a capacity of 65 W – 2 Nos. fitted with Copper tip	2
38	7	97	10 sets	Spanners double ended	Assorted sizes	10 sets
39	7	103	10	Spanner socket set	Made of steel, hex socket spanners of sizes from 6mm to 32 with suitable L handle and extension bar Taparia/ Ambica/Eastman/ Everest or ISI marked	10
40	7	104	1	Spanner T-Flex for screwing up and unscrewing in inaccessible position	Made of steel, hex socket spanners of sizes from 8mm to 32 mm consisting of 24 Nos along with suitable sliding T-handle, L handle and extension bar Taparia/ Ambica/Eastman/ Everest or ISI marked	1
41	7	99	5	Spanners adjustable	Made of steel, Length: 200mm Taparia/ Ambica/Eastman/ Everest or ISI marked	5
42	8	39	12	Spanners set	Made of Steel, hardened and tempered Metric Double ended 6 - 32 mm Make:Taparia/Ambica/Eastman/Netco(ISI)	12
43	7	107	2	Spray gun	Kerosene spray gun	2
44	7	132	5 set	Spring Plier	Made of steel with tips hardened & tempered of size 150 mm & 200 mm The Set consisting of 2 Nos. Make:Taparia/Ambica/Eastman/Netco(ISI)	5 set
45	9	39	6	Spirit level	Made of aluminum, length 600 mm and angle of 180,90 & 45 deg	6
46	4	86	1	Sprit level Precision	Flat type of length 200 mm with sensitivity of 0.02 mm 180,90 degrees	1
47	5	31	2	Steel Measuring Tape	5 mts and 10 mts.	2
48	9	38	6	Steel Measuring Tape	5 mts and 10 mts.	6
49	8	121	8	Steel rule	Made of Steel 300 mm Make:Taparia/Ambica/Eastman/Netco(ISI)	8
50	7	62	6	Steel rule	300 mm – English & Metric	6

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
51	6	65	6	Steel rulers	300mm, 600mm & 1000mm – 1 no. each	6 sets
52	9	37	6	Steel rulers	300mm, 600mm & 1000mm – 1 no. each	6 sets
53	8	71	2	Stock and die set	For 20mm to 50mm. G.I. Pipe Make : Taparia/Ambica/Eastman/Netco(ISO)	2
54	4	118	1	Stop Watch	Digital single-action, time-out, interval-split, cumulative split, continuous roll-over timing, and countdown alarm timing. Resolution is 0.01 second. Times to 9 hours, 59 minutes, 59 seconds, and 99 hundredths. Vivid, 1/2-inch high LCD digits are ideal for viewing in lab and field.	1
55	6	64	2	Straight Edge	Made of steel of 1000mm length	2
56	9	40	6	Surface Gauge	Universal type Make:Taparia/Ambica/Eastman/Netco	6
57	4	115	1	Tachometer digital multi grade 0 to 3000 rpm portable small size in leather case	Contact type to measure rpm up to 9999 with all standard accessories	1
58	4	90	1	Tap set matching drills	¼” to 5/8” SAE	1
59	4	91	1	Tap set matching drills	¼” to 5/8” SAE	1
60	4	89	1	Tap set with matching drills	3 mm to 16 mm	1
61	5	25	4	Tap wrenches	Assorted sizes	4
62	6	77	10	Tap wrenches	Assorted sizes	10
63	4	57	1	Tape measuring 10 m graduation in mm	Made of Steel 10 Mtrs graduation in MM Make:Freemans(ISI)	1
64	4	58	2	Tape measuring 2 m graduation in mm	Made of Steel 2 Mtrs graduation in MM Make:Freemans(ISI)	2
65	7	85	10	Taps and dies complete set in box	All standard sizes in a box	10
66	8	49	2	Thermometer	Thermometer to measure 0 to 100 deg centigrade	2
67	4	104	4	Tong tester	0-10-30 amps 0-500 volts (Clamp on Multimeter)	4

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
68	4	33	1	Torque wrench	300 mm 12.7 mm square drive right and left hand	1
69	7	133	3 set	Torque Wrench (Set of 3 nos)	Assorted sizes (One set consists of 3 assorted sizes)	3 set
70	7	114	2	Torque Wrench (Set of 3)	0 to 67.5 kgm	2
71	4	116	1	Transistor Tester		1
72	6	80	10	Triangular Scrapers	Fitted with handle of size 23 mm width and 200mm length	10
73	8	56	8	Try square	150 MM blade Make: Best Indian make	8
74	8	61	8	Tweezers	Anti magnetic, anti acid, non corrosive stainless steel of: -Tapered flat tip 4 ¼"Length - 1 No - Tapered ultra fine tip 4 ¼"length - 1 No - Angled ultra fine tip 4 ¼"length - 1 No - Strong precision type 5"length - 1 No - Thick flat strong tip 4 ¼"length - 1 No - serrated grips flat strong tip 4 ¼" - 1 No - Curved fine tip 4 ¼"length - 1 No - Straight narrow long fine tip 4 ½" -1 No - Pvc coated 4 ¼"length - 1 No The set consisting of 9 Nos	8
75	7	78	2	V-Block	Assorted sizes	2
76	5	35	6	V-Block sets	Made of steel, hardened & ground of Sizes 65x60x50 mm, 80x65x60 mm and 100x95x75 mm.The Set consisting of 3 Nos.	6
77	5	36	6	V-Block sets with clamps	Made of steel, hardened & ground of sizes 50x40x40 mm,80x63x63 mm and 125x90x90 mm along with clamps	6
78	4	76	2	V-Block with clamp 75 mm	Made of steel, hardened & ground of sizes 50x40x40 mm,80x63x63 mm and 125x90x90 mm along with clamps	2
79	8	69	8	Vice Bench	Made of cast iron, heavy duty bench vice and 100 mm jaw Make:Ambika/Netco	8
80	8	68	8	Vice hand	Made of steel of minimum size 50 mm Make: Ambika / NETCO	8
81	9	69	24	Welder apron	Welding purpose	24
82	9	66	24	Welder Goggles	Welding purpose	24
83	9	67	24	Welder Hand shield	Welding purpose	24
84	9	68	24	Welder Helmet	Welding purpose	24

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
85	9	72	24	Wire Brush	Wire brush with hard metallic strands of 1½" size for welding purpose	24
86	8	52	8	Wire stripper	125mm Make: Best Indian make	8
87	5	83	1lot	Work holding devices	Assorted sizes	1 Lot
88	4	31	2	Wrench adjustable	Made of forged steel, Length: 150mm Make:Taparia/Ambica/Eastman Netco (ISO)	1
89	4	29	1	Wrench adjustable	Made of forged steel, Length: 200mm Make:Taparia/Ambica/Eastman Netco (ISO)	2
90	4	30	2	Wrench adjustable	Made of forged steel, Length: 250mm Make:Taparia/Ambica/Eastman Netco (ISO)	2
91	8	163	2	Electrical hand drill machine with hammer action	230V, 50Hz, chuck, 600W capacity 01mm - 13 mm Make: Ambika / Powertool APT-ED-254	2
92	7	130	2	General purpose Puller	Puller with 3 leg, heat treated and chrome plated to resist corrosion. Drop forged legs should be reversible for internal or external pulling.	2 set
93	7	131	2	Stud Extractor	For removing broken or seized studs, bolts etc of sizes 6, 8, 10 & 12 mm (One set = 4 nos.)	2 set
94	5	63	1	Slip gauge set	Workshop grade – 112 piece alloy steel set	
95	9 7	15 56	3 6	Angle Grinder	Portable Grinder, operating with Single phase 230 V AC 50 Hz, wheel disc size: 100mm, Power input – 670 W, No load speed-11000rpm, Spindle thread: M10 And along with standard accessories. Make: Ambika/Powertool APT-AG-104 2.Spare parts for two years normal operation – backup pad-2 nos. Carbon brush – 2 nos. Gear & Pinion – 1 no.	9
96	9 7	14 54	2 2	Disc Grinder	1.Portable Grinder, operating with Single phase 230 V AC 50 Hz, wheel disc size: 100mm, Power input – 670 W, No load speed- 11000rpm, Spindle thread: M10 And along with standard accessories. 2.Recommended spare parts for two years normal operation to be included separately	4
97	9 7	16 53	12 2	Portable drilling machine	1. Portable drilling machine , operating with Single phase 230 V AC, 50 Hz, minimum power input – 450 W, minimum along standard with accessories for drilling Capacity of dia 10 mm. 2. Recommended spare parts for two years normal operation to be included separately	14

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
98	6	85	5	Electric drill gun	1. Electric drill gun operating with Single phase 230 V AC, 50 Hz, minimum power input – 450 W, minimum along standard with accessories for drilling Capacity of dia 13 mm. 2. Recommended spare parts for two years normal operation to be included separately	5
99	4	98	2	Electrical drill portable with chuck and key capacity 6 mm	230V, 50Hz, chuck, 600W capacity 6mm Make: Ambika / Powertool APT-ED-254	2
100	9	12	2	Flexible shaft grinder	One HP capacity, single Phase 230 V AC, 12000 rpm, Metal shaft size of 10 x 1500 mm, 6 mm collet shank holder and along standard with accessories. Recommended spare parts for two years normal operation to be included separately	2
101	7	55	2	Portable Die Grinder	1. Portable Grinder, operating with Single phase 230 V AC, 50 Hz, Power input – 600 W, Grinding point maximum dia -25 mm, minimum No load speed – 27000 rpm, tool holder - 8 mm and along With standard accessories. 2. Recommended spare parts for five years normal operation to be included separately	2
102	3/30			Smooth plane-250 mm lg and 50 mm width of cutter 250 mm lg and 50 mm width of cutter	Body, Frog and lever cap of High grade cast iron, Base and sides of body grounded and polished. Lever cap plated. Cut Iron: High Carbon steel Cap Iron: Good quality steel Handle & Knob: Good Hardwood/ plastic	12
103	3/30			Jack plane-355 mm lg and 50 mm width of cutter	Body, Frog and lever cap of High grade cast iron, Base and sides of body grounded and polished. Lever cap plated. Cut Iron: High Carbon steel Cap Iron: Good quality steel Handle & Knob: Good Hardwood/ plastic	12
104				Block plane-140 mm lg and 35 mm width of cut iron	Body and lever cap of High grade cast iron, Base and sides of body grounded and polished. Cut Iron: High Carbon steel Handle & Knob: Good Hardwood/ plastic	60
105				Block pane - 153 mm lg and 40 mm width of cut iron 153 mm lg and 40 mm width of cut iron	Body, Frog and lever cap of High grade cast iron, Base and sides of body grounded and polished. Lever cap plated. Cut Iron: High Carbon steel Cap Iron: Good quality steel Handle & Knob: Good Hardwood/ plastic	36
106				Craftsman plane	210 mm lg and 45 mm width of cut iron	15
107				T bar clamp	45 mm x 19 mm – 3', 4' and 5'	1 each
108				F clamp Heavy weight	Workable length 200 mm, flat size 25 mm, thickness 6 mm	12

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar						
Sl. No.	Annexure Reference			Item Description	Brief Specification	Qty in Nos.
	No.	S. No.	Qty.			
109				Hand saw-cross cut	450 mm	12

Lot-13 Tool Kits

13(1) Tool kit for work benches - Electrical

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : TOOL KIT FOR WORK BENCHES FOR ELECTRICAL (INDUSTRIAL & DOMESTIC) COURSE		
Ref: Annexure –8/26		Qty : 12 Sets.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	TOOL KIT FOR WORK BENCHES FOR ELECTRICAL (INDUSTRIAL & DOMESTIC) COURSE Tool Kit for work benches with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	12 Sets
	6 mm Electric drill	1 NO.
	3 meter Measure tape	1 NO.
	Retractable knife	1 NO.
	Scissors 5”	1 NO.
	Nose Plier 6”	1 NO.
	Wire cutter 6”	1 NO.
	Combination plier 6”	1 NO.
	Wire stripper/ Crimp	1 NO.
	Soldering iron 25 watts	1 NO.
	De-soldering pump	1 NO.
	Gas Plier	1 NO.
	Screw Spanner 8”	1 NO.
	Screw Spanner 6”	1 NO.
	Mini Hacksaw	1 NO.
	Circlip plier Int./Ext.	1 NO.
	SS Tweezer	1 NO.
	Yellow cleaning cloth – Standard size	1 NO.
	Centre punch 4”	1 NO.
	First Aid Kit	1 NO.
	Pin Vice – 0.8 to 1.5mm	1 NO.
	Cleaning brush – Nylon 2”	1 NO.
	Mini Bench vice – 3”	1 NO.
	Steel Hammer BP 800Gms	1 NO.
	Insulation tape	1 NO.
	Detachable handle screw driver set (Flat & Star) Two in one	1 NO.
	Detachable handle nut driver set metric	1 NO.
	Pen torch with cell	1 NO.
	HSS Drill Bit set – 2,3,4,5 & 6mm	1 NO.
	Sample solder wire – 50 Gms	1 NO.
	Mini magnifying glass	1 NO.
	Mini spanner set	1 NO.
	Allen key set Metric - TVS	1 NO.
	Plastic Mallet 1”	1 NO.
	File set - Flat / Round / MR/SE/ 4” or 10”	1 NO.
	Pin punch – 4”	1 NO.
	Combination plier 8”	1 NO.

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

Item : TOOL KIT FOR WORK BENCHES FOR ELECTRICAL (INDUSTRIAL & DOMESTIC) COURSE

Ref: Annexure –8/26

Qty : 12 Sets.

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
	Diagonal Cutter 6" & 5"	1 NO.
	Nose plier 6" & 5"	1 NO.
	Crimping tool 8"	1 NO.
	Precision screw driver set	1 NO.
	Tester	1 NO.
	Utility Knife	1 NO.
	Screw driver set with 8 Blades & handle	1 NO.
	Mini hacksaw frame	1 NO.
	Digital multimeter	1 NO.
	Aligner screw driver	1 NO.
	Solder Lead – 50 Gms	1 NO.
	First Aid kit	1 NO.
	Cleaning brush 1"	1 NO.
	Insulation tape	1 NO.
	Scissors 7"	1 NO.
	Needle file set	1 NO.
	Adjustable wrench 6"	1 NO.
	Solder assist kit	1 NO.
	Component storage box - Plastic	1 NO.
	Soldering iron 25 watts	1 NO.
	De-solder pump	1 NO.
	Soldering iron stand	1 NO.
	Yellow cleaning cloth	1 NO.
	Magnifying Lens	1 NO.
	Solder paste	1 NO.
	Stubby star screw driver – Flat tip	1 NO.
	Stubby star screw driver – Star tip	1 NO.

13(2) Tool kit for work benches - Machinist

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

Item : TOOL KIT FOR WORK BENCHES FOR MACHINIST – TURNER/MILLER COURSE

Ref: Annexure –5/11

Qty : 16 Sets.

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
2	TOOL KIT FOR WORK BENCHES FOR MACHINIST – TURNER/MILLER COURSE Tool Kit for work benches with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	16 Sets.
	8 mm Masonary bit	1 NO.
	6 mm Masonary bit	1 NO.
	HSS Drill bit set (1.5 to 6 mm)	1 NO.
	Electrician knife	1 NO.
	Feeler gauge set 26 blade	1 NO.
	Spirit level 9” – 12” Aluminium body	1 NO.
	SS Rule 6”	1 NO.
	Screw driver set detachable	1 NO.
	Screw driver 6 mm x 6”	1 NO.
	Screw driver 8 mm x 6”	1 NO.
	Stubby star screw driver	1 NO.
	Star head screw driver No.1 X 200mm	1 NO.
	Star head screw driver No.2 X 200mm	1 NO.
	Aligner screw driver	1 NO.
	Precision screw driver set	1 NO.
	Rust removing spray - 500 ML	1 NO.
	Plastic Mallet 1”	1 NO.
	Flat file 4”	1 NO.
	Round file 4”	1 NO.
	Digital multimeter	1 NO.
	Allen key set metric – TVS	1 NO.
	Safety goggles	1 NO.
	Adjustable wrench 8”	1 NO.
	Double end spanner set (6x7, 8x9, 10x11, 12x13)	1 NO.
	Vice Grip plier	1 NO.
	Combination plier 7”	1 NO.
	Side cutter 6” and 5”	1 NO.
	Nose plier 6” and 5”	1 NO.
	Circlip plier Int/Ext	1 NO.
	3 meter measure tape	1 NO.
	Mini hacksaw	1 NO.
	Wire crimper/stripper – imported	1 NO.
	Wire crimper/cutter	1 NO.
	Line tester	1 NO.
	Scissors 5”	1 NO.
	Reverse action tweezzer	1 NO.
	Soldering iron 25 watts	1 NO.
	De-solder pump	1 NO.
	Direction compass	1 NO.
	Inclinometer (angle finder)	1 NO.

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

Item : TOOL KIT FOR WORK BENCHES FOR MACHINIST – TURNER/MILLER COURSE

Ref: Annexure –5/11

Qty : 16 Sets.

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
	Pen torch with cell – 1.5V	1 NO.
	Cleaning brush – 2"	1 NO.
	Steel hammer – BP 500Gms	1 NO.
	Mini magnifying glass	1 NO.
	Insulation tape	1 NO.
	First Aid Kit	1 NO.
	Combination plier 6"	1 NO.
	Diagonal Cutter 6"	1 NO.
	10" Water pump plier	1 NO.
	Scissors 7"	1 NO.
	Big knife	1 NO.
	80 PCS - Dr. TOOL KIT with Taparia Box	1 NO.
	Wooden Hammer	1 NO.
	T Handle Screwdriver	1 NO.
	Small gauge	1 NO.
	Auto tester	1 NO.
	Hex Coupler	1 NO.
	Water pump plier	1 NO.
	Vice plier	1 NO.
	Crimping tool 8"	1 NO.
	Hex key wrench	1 NO.
	Bits – 5-Flat 3,4,5,6,8 mm	1 NO.
	Phillips No.1,2,3	1 NO.
	Torx Size: T15, 20, 30	1 NO.
	Terminals	1 NO.
	Combination wrench: 10,11,12,13,14,15,17 mm	1 NO.
	9-1/2" DR.Socket: 10,11,12,13,14,15,16,17,19,22 mm	1 NO.
	1-1/2" DR.Spark plug socket 16 mm, 21 mm	1 NO.
	1-1/2" DR.Extension bar, sliding T-bar	1 NO.
	1-1/2" DR.Ratchet Handle	1 NO.
	5-Screw Driver:-8x200 mm (-), 6x100mm(-) 6x40mm(-), 6x100(+), 6x40 mm (+)	1 NO.

13(3) Tool kit for work benches - Mechatronics

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item: TOOL KIT FOR WORK BENCHES FOR CNC, CAD, MECHATRONICS TRADE		
Ref: Annexure -1/15		16 sets
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
3	TOOL KIT FOR WORK BENCHES FOR CNC, CAD, MECHATRONICS TRADE Tool Kit for work benches with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	
	10mm Electric Drill machine	1
	8mm Masonary bit	1
	6mm Masonary bit	1
	HSS Drill bit set (1.5 to 6mm) by 0.5 mm	1
	Electrician knife	1
	Feeler gauge set 26 blade	1
	Sprit level 9" or 12"	1
	SS Rlue 6"	1
	Screw driver set detachable	1
	Nut driver set detachable	1
	screw driver 6mm X6"	1
	Screw driver 8 mm X 6"	1
	Stubby star screw driver	1
	Star head srew driver No.1 (100 x 5 mm)	1
	Star head srew driver No.2 (100 x 6 mm)	1
	Aligner screw driver	1
	Screw catch screw driver (Screw pickup tool)	1
	Percision screw driver set	1
	Rust removing spray	1
	Plastic Mallet 1"	1
	Flat file 4"	1
	Round File 4"	1
	Digital multimeter	1
	Allen key set metric	1
	Safety goggles	1
	Adjustable wrench 8"	1
	Double end spanner set 6x7, 8x9, 10x11, 12x13 mm set	1
	(6X7 , 8X9 , 10X11, 12X13)	1
	Combination plier 7"	1
	Side cutter 6" and 5"	1
	Nose Plier 6" and 5"	1
	Circlip Plier int/Ext	1
	3 meter measure tape	1
	Mini hacksaw	1
	Wire crimper /stripper	1
	Wire stripper/cutter	1
	Line tester	1
	Scissors 5"	1
	Reverse action tweezer	1
	soldering iron 25 watts	1
	De-solder pump	1
	Pen torch with cell	
	Cleaning brush (Nylon)	
	Steel Hammer	
	Mini magnifying glass	
	Insulation tape	
	First Aid Kit	

13(4) Tool kit for work benches – Tool and Die making

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

Item : TOOL KIT FOR WORK BENCHES FOR TOOLS & DIE MAKING COURSE

Ref: Annexure –6/92

Qty : 16 Sets.

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
4	TOOL KIT FOR WORK BENCHES FOR MACHINIST – TOOLS & DIE MAKING COURSE Tool Kit for work benches with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	16 Sets.
	8 mm Masonary bit	1 NO.
	6 mm Masonary bit	1 NO.
	HSS Drill bit set (1.5 to 6 mm)	1 NO.
	Electrician knife	1 NO.
	Feeler gauge set 26 blade	1 NO.
	Spirit level 9” – 12” Aluminium body	1 NO.
	SS Rule 6”	1 NO.
	Screw driver set detachable	1 NO.
	Screw driver 6 mm x 6”	1 NO.
	Screw driver 8 mm x 6”	1 NO.
	Stubby star screw driver	1 NO.
	Star head screw driver No.1 X 200mm	1 NO.
	Star head screw driver No.2 X 200mm	1 NO.
	Aligner screw driver	1 NO.
	Precision screw driver set	1 NO.
	Rust removing spray - 500 ML	1 NO.
	Plastic Mallet 1”	1 NO.
	Flat file 4”	1 NO.
	Round file 4”	1 NO.
	Digital multimeter	1 NO.
	Allen key set metric – TVS	1 NO.
	Safety goggles	1 NO.
	Adjustable wrench 8”	1 NO.
	Double end spanner set (6x7, 8x9, 10x11, 12x13)	1 NO.
	Vice Grip plier	1 NO.
	Combination plier 7”	1 NO.
	Side cutter 6” and 5”	1 NO.
	Nose plier 6” and 5”	1 NO.
	Circlip plier Int/Ext	1 NO.
	3 meter measure tape	1 NO.
	Mini hacksaw	1 NO.
	Wire crimper/stripper – imported	1 NO.
	Wire crimper/cutter	1 NO.
	Line tester	1 NO.
	Scissors 5”	1 NO.
	Reverse action tweezer	1 NO.
	Soldering iron 25 watts	1 NO.
	De-solder pump	1 NO.
	Direction compass	1 NO.

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

Item : TOOL KIT FOR WORK BENCHES FOR TOOLS & DIE MAKING COURSE

Ref: Annexure –6/92

Qty : 16 Sets.

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
	Inclinometer (angle finder)	1 NO.
	Pen torch with cell – 1.5V	1 NO.
	Cleaning brush – 2”	1 NO.
	Steel hammer – BP 500Gms	1 NO.
	Mini magnifying glass	1 NO.
	Insulation tape	1 NO.
	First Aid Kit	1 NO.
	Combination plier 6”	1 NO.
	Diagonal Cutter 6”	1 NO.
	10” Water pump plier	1 NO.
	Scissors 7”	1 NO.
	Big knife	1 NO.
	80 PCS - Dr. TOOL KIT with Taparia Box	1 NO.
	Wooden Hammer	1 NO.
	T Handle Screwdriver	1 NO.
	Small gauge	1 NO.
	Auto tester	1 NO.
	Hex Coupler	1 NO.
	Water pump plier	1 NO.
	Vice plier	1 NO.
	Crimping tool 8”	1 NO.
	Hex key wrench	1 NO.
	Bits – 5-Flat 3,4,5,6,8 mm	1 NO.
	Phillips No.1,2,3	1 NO.
	Torx Size: T15, 20, 30	1 NO.
	Terminals	1 NO.
	Combination wrench: 10,11,12,13,14,15,17 mm	1 NO.
	9-1/2” DR.Socket: 10,11,12,13,14,15,16,17,19,22 mm	1 NO.
	1-1/2” DR.Spark plug socket 16 mm, 21 mm	1 NO.
	1-1/2” DR.Extension bar, sliding T-bar	1 NO.
	1-1/2” DR.Ratchet Handle	1 NO.
	5-Screw Driver:-8x200 mm (-), 6x100mm(-) 6x40mm(-), 6x100(+), 6x40 mm (+)	1 NO.

13(5) Tool kit for work benches – Welding

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

Item: TOOL KIT FOR WORK BENCHES FOR WELDING COURSE

Ref: Annexure -9/31

Qty: 12 Sets

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
5	TOOL KIT FOR WORK BENCHES FOR WELDING COURSE Tool Kit for work benches with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	12 Sets
	Hacksaw 300 mm with 20 Nos. HSS Blades	1
	Try Square 10"	1
	Scriber 10"	1
	Number Punch 10 mm (3/8")	1
	Steel rule 12"	1
	Dot Punch 6"	1
	Ball pen hammer 1 Kg or 800 Grams	1
	Chipping Hammer	1
	Flat file 2nd Cut 12"	1
	Wire brush	1
	Leather hand gloves	1
	Welding hand Screen (ESAB) or Equivalent	1
	Electrode Holder 200 A , 300 A, 500A, Copper	1
	Mallet Plastic 30 mm with handle	1
	Oxy Acetylene cutting nozzle - 1/33",3/64",1/16" (without torch)	1
	Rivetting tool set	1
	Sheetmetal bending tool Set	1
	C-Clamps 6"	1
	Flat tongs 12" (Approximate)	1
	Half round Tongs 12"(Approximate)	1
	Portable hand vice 150 mm long	1

13(6) Tool kit for work benches – Automobile

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item: TOOL KIT FOR WORK BENCHES FOR AUTOMOBILE (BASIC & ADVANCED) TRADE		
Ref: Annexure -7/58		8 sets
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
6	TOOL KIT FOR WORK BENCHES FOR AUTOMOBILE (BASIC & ADVANCED) TRADE Tool Kit for work benches with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	
	DTP Double Tool Pouch	
	Combination plier 6”	1
	Diagonal Cutter 6”	1
	10” Water pump plier	1
	Scissors 7”	1
	Big Knife	1
	Crimping Tool 0.5 – 6mm Sq.	1
	Tester	1
	Insulation Tape	1
	Wire Stripper	1
	Hammer	1
	Nose Plier 8”	1
	Screw Spanner 8”	1
	10” Vice Grip Plier	1
	Flat tip screw driver (6” x 6MM tip)	1
	Star tip Screw Driver (4”xNo.2 tip)	1
	5 Meter measure tape	1
	6” Hacksaw frame	1
	100 PCs ¼” & ½” Dr. Tool Kit with Metal Box	
	Wooden Hammer	1
	T Handle Screw Driver	1
	Small Guage	1
	Auto tester	1 set
	Hex Coupler	1 set
	Water pump plier	1 set
	Vice Plier	1 set
	Crimping Tool 8”	1 set
	Hex Key Wrench	1
	Bits – 5 Flat, 3,4,5,6,8mm	1
	Phillips No. 1,2,3	1
	Torx Size : T15,20,30	1 set
	41 – Terminals	1 set
	Combination Wrench: 10,11,12,13,14,15,17mm	1 set
	10-1/2” Dr. Socket: 10,11,12,13,14,15,16,17,19,22mm	1 set
	9-1/2” Dr. Spark Plug socket 16mm, 21mm	1 set
	1-1/2” DR. Spark Plug Socket 16mm, 21mm	1 set
	1-1/2: DR. Extension Bar, sliding T-bar	1 set
	1-1/2” DR. Ratchet Handle	1 set
	5-Screw Driver: 8x200mm(-), 6x100mm(-), 6x40mm(-), 6x100mm(+), 6x40mm(+)	1 set
	DX Deluxe Tool Kit with Metal Box	
	Combination plier 8”	1
	Diagonal Cutter 6” & 4”	1 set
	Nose Plier 6” & 4”	1 set
	Crimping Tool 8”	1
	Precision Screw Driver set	1 set
	Tester	1
	Utility Knife	1
	Screw Driver set	1 set
	Mini Hacksaw frame	1

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item: TOOL KIT FOR WORK BENCHES FOR AUTOMOBILE (BASIC & ADVANCED) TRADE		
Ref: Annexure -7/58		8 sets
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
	Digital Multimeter	1
	Aligner Screw Driver	1
	Solder Lead	1
	First Aid Kit	1 set
	Cleaning Brush 1"	1
	Insulation Tape	1
	Scissors 7"	1

13(7) Electrician tool kit

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar		
Item : ELECTRICIAN TOOL KIT		
Ref: Annexure –8/133		Qty : 6 Sets.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Electrician Tool Kit with Good Quality Brief Case with Compartments – 21” – Set of items mentioned below:	6 Sets
	6 mm Electric drill	1 NO.
	3 meter Measure tape	1 NO.
	Retractable knife	1 NO.
	Scissors 5”	1 NO.
	Nose Plier 6”	1 NO.
	Wire cutter 6”	1 NO.
	Combination plier 6”	1 NO.
	Wire stripper/ Crimp	1 NO.
	Soldering iron 25 watts	1 NO.
	De-soldering pump	1 NO.
	Gas Plier	1 NO.
	Screw Spanner 8”	1 NO.
	Screw Spanner 6”	1 NO.
	Mini Hacksaw	1 NO.
	Circlip plier Int./Ext.	1 NO.
	SS Tweezer	1 NO.
	Yellow cleaning cloth – Standard size	1 NO.
	Centre punch 4”	1 NO.
	First Aid Kit	1 NO.
	Pin Vice – 0.8 to 1.5mm	1 NO.
	Cleaning brush – Nylon 2”	1 NO.
	Mini Bench vice – 3”	1 NO.
	Steel Hammer BP 800Gms	1 NO.
	Insulation tape	1 NO.
	Detachable handle screw driver set (Flat & Star) Two in one	1 NO.
	Detachable handle nut driver set metric	1 NO.
	Pen torch with cell	1 NO.
	HSS Drill Bit set – 2,3,4,5 & 6mm	1 NO.
	Sample solder wire – 50 Gms	1 NO.
	Mini magnifying glass	1 NO.
	Mini spanner set	1 NO.
	Allen key set Metric - TVS	1 NO.
	Plastic Mallet 1”	1 NO.
	File set - Flat / Round / MR/SE/ 4” or 10”	1 NO.
	Pin punch – 4”	1 NO.
	Combination plier 8”	1 NO.
	Diagonal Cutter 6” & 5”	1 NO.

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

Item : ELECTRICIAN TOOL KIT

Ref: Annexure –8/133

Qty : 6 Sets.

TECHNICAL SPECIFICATION

Sl. No.	Description	Qty
	Nose plier 6" & 5"	1 NO.
	Crimping tool 8"	1 NO.
	Precision screw driver set	1 NO.
	Tester	1 NO.
	Utility Knife	1 NO.
	Screw driver set with 8 Blades & handle	1 NO.
	Mini hacksaw frame	1 NO.
	Digital multimeter	1 NO.
	Aligner screw driver	1 NO.
	Solder Lead – 50 Gms	1 NO.
	First Aid kit	1 NO.
	Cleaning brush 1"	1 NO.
	Insulation tape	1 NO.
	Scissors 7"	1 NO.
	Needle file set	1 NO.
	Adjustable wrench 6"	1 NO.
	Solder assist kit	1 NO.
	Component storage box - Plastic	1 NO.
	Soldering iron 25 watts	1 NO.
	De-solder pump	1 NO.
	Soldering iron stand	1 NO.
	Yellow cleaning cloth	1 NO.
	Magnifying Lens	1 NO.
	Solder paste	1 NO.
	Stubby star screw driver – Flat tip	1 NO.
	Stubby star screw driver – Star tip	1 NO.

Lot-14 Miscellaneous items

14(1) Hand Lever Shear

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar			
Item : Hand Lever Shear			
Ref: Annexure –9/7		Qty : 2 Nos.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Hand Lever Shear fitted with blades and handle suitable for cutting sheets with Long handles to provide plenty of shearing torque and Hardened and Tempered replaceable blades.	2	
1.1	Major specifications		
1.1.1	Length of blade		18" (approx.)
1.2	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore		3 sets (Total)
1.3	Colour: Standard		
1.4	Set of spare parts for 2 year normal operation. <ul style="list-style-type: none"> Please indicate the detailed list of spares in Technical bid without price. 		
1.5	Items required for E&C to be supplied with the machine:		
1.5.1	Predrilled holes to bolt down the machine to work bench. Suitable bolts to be provided.	1 Set	

14(2) Fly Press

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar			
Item : Fly Press – Hand operated with standard accessories			
Ref: Annexure –9/8		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Fly Press – Hand operated with standard accessories and with two adjustable ‘V’ guides with oil grooves for constant lubrication complete with two catch dogs with bolts and nuts. Fly wheel of sufficient mass to be provided.	1	
1.1	Major specifications		
1.1.1	Distance from center to back		115 mm
1.1.2	Height from Base to Guide		165 mm
1.1.3	Diameter of screw		50 mm
1.2	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore		3 sets (Total)
1.3	Colour: Standard		
1.4	Set of spare parts for 2 year normal operation. <ul style="list-style-type: none"> Please indicate the detailed list of spares in Technical bid without price. 		

14(3) Ladder

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar	
DESCRIPTION : Ladder	
Agreement Ref: 8/180	Qty: 1 set of 5' & 8'.
Ladder –set: Self Supporting Ladder one each of height 5ft and 8ft made of Aluminum	
Technical Specifications: <ul style="list-style-type: none"> • Height minimum 5ft and 8ft • Medium Duty Ladder with 125 kg load rating designed for prolonged standing at one height • Rails made from 66 mm 'C' section & non slip flat Steps 65 mm ribbed aluminum profile • SPREADER BRACES to take the load when opened & prevent the ladder from closing accidentally • Anti slip rubber shoes on both feet ensuring anti slip footing 	

14(4) Platform Weighing machine

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar			
Item : Platform Weighing machine			
Ref: Annexure – 6/110		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Platform Weighing machine with all standard and required accessories.	1	
1.1	Major specifications		
1.1.1	Accuracy		10 g
1.1.2	Weighing capacity		250 kg
1.1.3	Display type		Digital
1.1.4	Material		Iron
1.1.5	Platform size		20 x 20 in

14(5) Coil Winding Machine

Indo - Myanmar Industrial Training Centre (IMITC) Project, Monywa, Myanmar			
Item : Coil Winding Machine			
Ref: Annexure – 8/128		Qty : 1 No.	
TECHNICAL SPECIFICATION			
Sl. No.	Description	Qty	
1	Coil Winding Machine – Manual, 1-reel carrier with all standard and required accessories.	1	
1.1	Major specifications		
1.1.1	Wire range		18-42 SWG
1.1.2	Max Coil diameter		80 mm
1.1.3	Maximum Centre Height		150 mm
1.1.4	Maximum Centre Distance		150 mm
1.2	Accessories		
1.2.1	5 Digit Mechanical Counter		1 Each
1.2.2	Copper Wire - 36 SWG		3 Kg
1.2.3	Copper Wire - 18 SWG		3 Kg
1.2.4	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore		3 sets (Total)
1.3	Colour: Standard		
1.4	Set of mechanical and electrical spare parts for 2 year normal operation. Please indicate the detailed list of spares in Technical bid without price.		
1.5	Items required for E&C to be supplied with the machine:		
1.5.1	Touch up paint - 1 litre each, Brush- ½" – 2 nos., Cora cloth - 2 meters, Cotton waste - 1 kg.		
1.5.2	Initial fill of Lubrication Oil packed in separate containers & sealed		
1.5.3	Set of anti vibration mounting pads / Foundation bolts with leveling plates - 1 set		

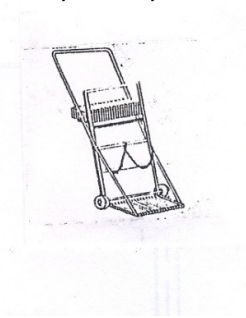
Lot-15 Oxy –Acetylene welding set

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

Item : OXY - ACETYLENE GAS WELDING SET

Ref. No: 4/101

Qty : 2 Nos

Sl. No.	Description	
1	<p>OXY - ACETYLENE GAS WELDING EQUIPMENT: Oxy – Acetylene gas welding equipment complete unit with oxygen and acetylene cylinders mounted on given below trolley/truck – two wheel type with handle, each cylinder fitted with double stage double gauge pressure & flow regulators, welding & cutting gun with following specifications and accessories. (all accessories of the equipment shall confirm to ISI standard or equivalent).</p> <p>CUTTING GUN: Standard Cutting gun 450 mm length & 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>WELDING GUN: 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&30 and brazing tips Nos. 1,2,3,4,5&6. Suitable rubber hoses of 10 meter length, ID 8 mm (inside diameter) each for oxygen and acetylene gases along with hose connectors.</p> <p>Gas Cyl Trolley/Truck:</p> <div style="display: flex; align-items: center;">  <div style="border: 1px solid black; padding: 5px;"> <p>Dimension :24 inches width X 48 inches height No. of cylinders :2 nos.(Oxygen & Acetylene) Wheels :2 nos. with suitable solid rubber wheels Chains :2 chains to fasten two cylinders Tool box :To store tools Safety features :As per IS:8016:1996 Paint :Powder coated / PU yellow Spares :Recommended spares for 2 years of normal operation</p> </div> </div>	
1.10	ACCESSORIES TO BE SUPPLIED ALONG WITH EACH EQUIPMENT - EACH SET CONTAINING FOLLOWING:	
1.11	Welding Hose for oxygen, ID 8 mm & length 10 Meters	1 No.
1.12	Welding Hose for Acetylene, ID 8 mm & length 10 meters	1 No.
1.13	Hose Clips	1 Set
1.14	Set of spanners	1 Set
1.15	Hose Connectors	1 Set
1.16	Double stage double gauge regulators	1 Set
2	SET OF SPARES FOR 2 YEARS OF NORMAL OPERATION – (EACH EQUIPMENT 1 SET)	
2.1	Please indicate the detailed list of spares in Technical bid without price.	
3	Operation/ Service/ Spare parts manual – 2 sets to be sent along with Machine and 1 set to HMTI, Bangalore	1 No.

Lot-16 Precision Surface Grinder

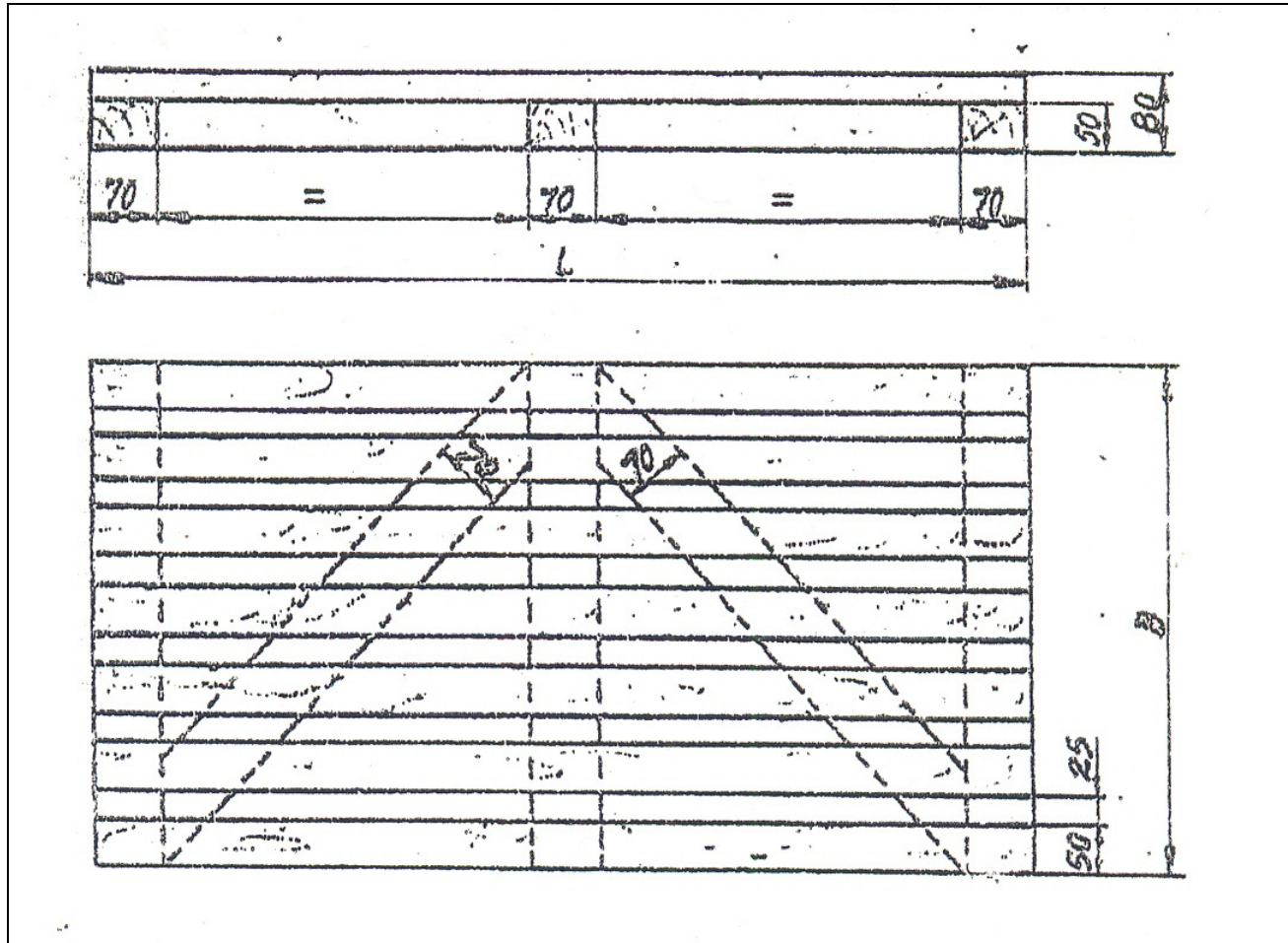
Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar

Item : Precision Surface Grinder		
Ref: Annexure – 6/10		Qty : 1 No.
TECHNICAL SPECIFICATION		
Sl. No.	Description	Qty
1	Precision Surface Grinder with all standard & required accessories and Electrical suitable for 400V, 3Phase, 50Hz AC supply.	1
1.1	Major specifications	
1.1.1	Capacity:	
1.1.1.1	Working Surface	750 x 250 mm
1.1.1.2	Max. Longitudinal Travel	800 mm
1.1.1.3	Max. Cross Traverse	350 mm
1.1.1.4	Max. Spindle Centre Height above Table	550 mm
1.1.2	Speed & Feed	
1.1.2.1	Table Speed (Maximum)	16 m/min
1.1.2.2	Power Cross Traverse	1000 mm/min
1.1.2.3	Auto Cross Feed at each Table Reversal (Infinitely variable)	0.5 to 10 mm
1.1.2.4	Least count of Vertical feed head wheel	0.002 mm
1.1.3	Grinding Head	
1.1.3.1	Size of Grinding Wheel (Diameter x Thickness x Bore)	250 x 25 x 76.2 mm
1.1.3.2	Speed of Grinding Spindle	1800 rpm
1.1.3.3	Power of Spindle Motor	3 HP
1.1.4	Hydraulic System	
1.1.4.1	Working Pressure	18 kg/cm ²
1.1.4.2	Power of Hydraulic Pump Motor	2 HP
1.1.4.3	Tank Capacity	60 Litres
1.2	Accessories	
1.2.1	Grinding wheels	2 Nos.
1.2.2	Grinding wheel flange unit (Wheel Collet)	1 Set
1.2.3	Wheel balancing mandrel	1 No.
1.2.4	Electromagnetic chuck (suitable) with Rectifier & Transformer	1 No.
1.2.5	Wheel Balancing Stand	1 Set
1.2.6	Machine Lamp – Halogen Type	1 Set
1.2.7	Wet Grinding Attachment	1 No.
1.2.8	Operation, Maintenance and spare parts manual	3 sets per machine
1.3	Colour: Dual Colour - Himmel Blue (RAL 5015) and Soft Grey (RAL 7035) Polyurethane Paint	
1.4	Set of Mechanical and Electrical spare parts for 2 years normal operation. • Please indicate the detailed list of spares in Technical bid without price.	
1.5	Items required for E&C to be supplied with the machine:	
1.5.1	Touch up Paint - 1 Litre each, Brush- ½” – 2 Nos., Cora Cloth - 2 Meters, Cotton Waste - 1 Kgs.	
1.5.2	Set of additional MCB's as spares	
1.5.3	Initial fill of Lubrication Oil packed in separate containers & sealed	
1.5.4	Set of anti vibration mounting pads / Foundation bolts with leveling plates - 1 Set	

Lot-17 Foot boards & Pallets

17(1) Foot boards

Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar				
Description : Foot Boards for machines				
Agreement Ref. / Sl. No.				Qty
1	Sl. No. 16 of Annex 1	Foot boards for machines		1 set
2	Sl. No. 84 of Annex 5	Foot boards for machines	Assorted sizes	20
3	Sl. No. 109 of Annex 6	Foot boards for machines	Assorted sizes	17



Features

Wood : Deodar / Benteak (Nandi) / Silver Oak

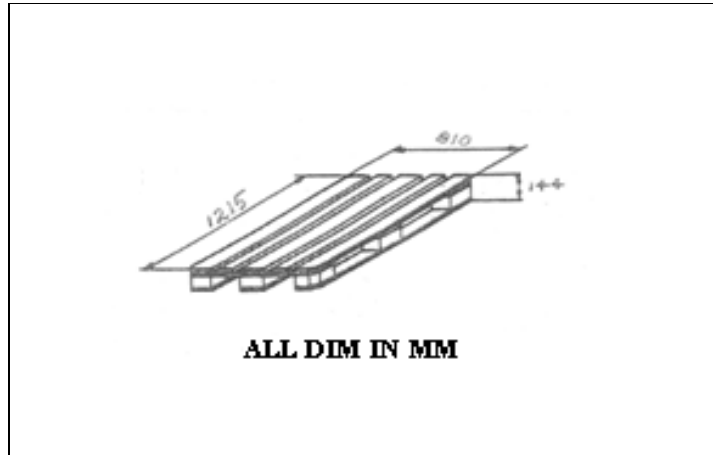
Joints : All joints to be nailed

Footboards are to be chemically treated - Fumigated

Sl. No.	L	B	No. of planks	Sl. No. 16 of Annex 1	Sl. No. 84 of Annex 5	Sl. No. 109 of Annex 6	Total Qty
1	1000	500	7	15	20	20	55
2	2000	800	11	2	5	10	17

17(2) Pallets

<i>Project: Setting up of Indo-Myanmar Industrial Training Centre, Monywa, Myanmar</i>				
Description: SET OF WOODEN PALLETS				
Agreement Ref. / Sl.No.				Qty
4	Sl. No. 108 of Annex 6	Set of wooden pallets	Assorted sizes	1 lot
5	Sl. No. 52 of Annex 7	Pallets		6



SET OF WOODEN PALLETS:

Dimension	:	1215 Length X 810 Breadth X 144 Height mm
Wood	:	Deodar
Plank Thickness (Top)	:	25 mm
Plank Thickness (Bottom)	:	20 mm
No. of Planks	:	5
Gap between planks	:	20 mm

Pallets are to be chemically treated – Fumigated

Note: Seaworthy Packing is not required for this Lot. However, the pallets are to be wrapped in plastic sheets and bundled with patties.

Lot -18 Power Tools

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar																	
Ref: 3/29 Power Tools			Qty: As below														
S.No	Item Description	Brief Specification	Qty in Nos.														
1	Rotary Drill	<table border="1"> <tr><td>Power input</td><td>600 W</td></tr> <tr><td>No- load speed</td><td>0- 2600 rpm</td></tr> <tr><td>Chuck capacity</td><td>1.5-13 mm</td></tr> <tr><td>Drilling Dia in steel</td><td>13 mm</td></tr> <tr><td>Drilling Dia in aluminium</td><td>13 mm</td></tr> <tr><td>Drilling Dia in wood</td><td>30 mm</td></tr> <tr><td>Drill Spindle connecting thread</td><td>½" -20 UNF</td></tr> </table>	Power input	600 W	No- load speed	0- 2600 rpm	Chuck capacity	1.5-13 mm	Drilling Dia in steel	13 mm	Drilling Dia in aluminium	13 mm	Drilling Dia in wood	30 mm	Drill Spindle connecting thread	½" -20 UNF	1
Power input	600 W																
No- load speed	0- 2600 rpm																
Chuck capacity	1.5-13 mm																
Drilling Dia in steel	13 mm																
Drilling Dia in aluminium	13 mm																
Drilling Dia in wood	30 mm																
Drill Spindle connecting thread	½" -20 UNF																
2	Large Angle Grinder	<table border="1"> <tr><td>Power Input</td><td>2000 W</td></tr> <tr><td>No load speed</td><td>8500 rpm</td></tr> <tr><td>Grinding Spindle Speed</td><td>M 14</td></tr> <tr><td>Disc dia</td><td>180 mm</td></tr> </table>	Power Input	2000 W	No load speed	8500 rpm	Grinding Spindle Speed	M 14	Disc dia	180 mm	1						
Power Input	2000 W																
No load speed	8500 rpm																
Grinding Spindle Speed	M 14																
Disc dia	180 mm																
3	Blower	<table border="1"> <tr><td>Power Input</td><td>620W</td></tr> <tr><td>No load speed</td><td>16000 rpm</td></tr> <tr><td>Weight without cable</td><td>1.7 kgs</td></tr> <tr><td>Volumetric flow rate</td><td>3.5m³ /min</td></tr> </table>	Power Input	620W	No load speed	16000 rpm	Weight without cable	1.7 kgs	Volumetric flow rate	3.5m ³ /min	1						
Power Input	620W																
No load speed	16000 rpm																
Weight without cable	1.7 kgs																
Volumetric flow rate	3.5m ³ /min																
4	Circular Saw	<table border="1"> <tr><td>Power Input</td><td>1100 W</td></tr> <tr><td>No load speed</td><td>5200 rpm</td></tr> <tr><td>Saw blade bore</td><td>19 mm</td></tr> <tr><td>Saw blade dia</td><td>184 mm</td></tr> <tr><td>Cutting depth (90 °)</td><td>65 mm</td></tr> <tr><td>Cutting depth (45 °)</td><td>47 mm</td></tr> </table>	Power Input	1100 W	No load speed	5200 rpm	Saw blade bore	19 mm	Saw blade dia	184 mm	Cutting depth (90 °)	65 mm	Cutting depth (45 °)	47 mm	1		
Power Input	1100 W																
No load speed	5200 rpm																
Saw blade bore	19 mm																
Saw blade dia	184 mm																
Cutting depth (90 °)	65 mm																
Cutting depth (45 °)	47 mm																
5	Jigsaw	<table border="1"> <tr><td>Power Input</td><td>580 W</td></tr> <tr><td>No load stroke rate</td><td>500-3100 RPM</td></tr> <tr><td>Weight without cable</td><td>2.4kgs</td></tr> <tr><td>Cutting depth in wood</td><td>85 mm</td></tr> <tr><td>Cutting depth in aluminium</td><td>20 mm</td></tr> <tr><td>Cutting depth in non -alloyed steel</td><td>10 mm</td></tr> </table>	Power Input	580 W	No load stroke rate	500-3100 RPM	Weight without cable	2.4kgs	Cutting depth in wood	85 mm	Cutting depth in aluminium	20 mm	Cutting depth in non -alloyed steel	10 mm	1		
Power Input	580 W																
No load stroke rate	500-3100 RPM																
Weight without cable	2.4kgs																
Cutting depth in wood	85 mm																
Cutting depth in aluminium	20 mm																
Cutting depth in non -alloyed steel	10 mm																
6	Orbital Sander	<table border="1"> <tr><td>Power Input</td><td>190 W</td></tr> <tr><td>No load speed</td><td>12000 rpm</td></tr> </table>	Power Input	190 W	No load speed	12000 rpm	1										
Power Input	190 W																
No load speed	12000 rpm																

Project : Indo-Myanmar Industrial Training Centre, Monywa, Myanmar																			
Ref: 3/29 Power Tools			Qty: As below																
S.No	Item Description	Brief Specification	Qty in Nos.																
7	Random Orbit Sander	<table border="1"> <tr> <td>Sanding plate diameter</td> <td>150 mm</td> </tr> <tr> <td>No load speed</td> <td>4500- 12000 rpm</td> </tr> <tr> <td>Orbital Stroke rate</td> <td>9000- 24000 rpm</td> </tr> <tr> <td>Eccentricity</td> <td>2 mm</td> </tr> <tr> <td>Power input</td> <td>340 W</td> </tr> <tr> <td>Oscillating circuit diameter</td> <td>4 mm</td> </tr> <tr> <td>Vibration emission value</td> <td>4 m/s²</td> </tr> <tr> <td>Uncertainty K</td> <td>1.5 m/s²</td> </tr> </table>	Sanding plate diameter	150 mm	No load speed	4500- 12000 rpm	Orbital Stroke rate	9000- 24000 rpm	Eccentricity	2 mm	Power input	340 W	Oscillating circuit diameter	4 mm	Vibration emission value	4 m/s ²	Uncertainty K	1.5 m/s ²	1
Sanding plate diameter	150 mm																		
No load speed	4500- 12000 rpm																		
Orbital Stroke rate	9000- 24000 rpm																		
Eccentricity	2 mm																		
Power input	340 W																		
Oscillating circuit diameter	4 mm																		
Vibration emission value	4 m/s ²																		
Uncertainty K	1.5 m/s ²																		
8	Planer	<table border="1"> <tr> <td>Power input</td> <td>650 W</td> </tr> <tr> <td>No load speed</td> <td>16500 rpm</td> </tr> <tr> <td>Planing Width</td> <td>82 mm</td> </tr> <tr> <td>Max cutting depth</td> <td>2.6 mm</td> </tr> </table>	Power input	650 W	No load speed	16500 rpm	Planing Width	82 mm	Max cutting depth	2.6 mm	1								
Power input	650 W																		
No load speed	16500 rpm																		
Planing Width	82 mm																		
Max cutting depth	2.6 mm																		

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: 01 - 01 - 2019)*

Sl. #	LOT	ITEM
1	LOT - 1	Circular Saw Machine & Portable Disc Sander
2	LOT - 2	Band Saw machine
3	LOT - 3	Wood Lathe & Bench Miller
4	LOT - 4	Pattern Lathe & Pattern Milling machine
5	LOT - 5	Planer, Sharpener, Top spindle & Router machine
6	LOT - 6	Sand Disc Machines & Sanders
7	LOT - 7	Dust collector & Planer machine
8	LOT - 8	Drilling machines

Sl. #	LOT	ITEM
9	LOT - 9	Electrical Machine Trainers
10	LOT - 10	Electrical Industrial Trainers
11	LOT - 11	Hand Tools
12	LOT - 12	Set of Hand Tools
13	LOT - 13	Tool Kits
14	LOT - 14	Miscellaneous items
15	LOT - 15	Oxy-Acetylene welding set
16	LOT - 16	Precision Surface Grinder
17	LOT - 17	Foot Boards & Pallets
18	LOT - 18	Power Tools

TENDER NO: HMTI/PROJ/IMITC/MONYWA/S003/2018 Dated 28-12-2018**CLOSING ON: 14-01-2019, TIME 10.30 HRS****TECHNICAL BID OPENING ON: 14-01-2019, 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 LOT – 11 (Hand Tools) only:**

S.No. 48 (Domestic Water Pump with starter), 101 (Motor winding set), 108 (Oil drums, measures & dispensers) & 109 (Oil Filtering unit) are deleted from Lot-11 in SECTION – IV, SECTION V – COMMERCIAL Annexure -1 and Enclosure-1.

2. **The following amendment has been made to the above mentioned tender with respect to LOT – 12 (Set of Hand Tools) only:**

S.No. 94 (Slip gauge set) is deleted from Lot-12 in SECTION – IV, SECTION V – COMMERCIAL Annexure -1 and Enclosure-1.

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.2***(dt: 14 - 1 - 2019)*

Sl. #	LOT	ITEM
1	LOT - 1	Circular Saw Machine & Portable Disc Sander
2	LOT - 2	Band Saw machine
	LOT - 3	Wood Lathe & Bench Miller
4	LOT - 4	Pattern Lathe & Pattern Milling machine
5	LOT - 5	Planer, Sharpener, Top spindle & Router machine
6	LOT - 6	Sand Disc Machines & Sanders
7	LOT - 7	Dust collector & Planer machine
8	LOT - 8	Drilling machines

Sl. #	LOT	ITEM
9	LOT - 9	Electrical Machine Trainers
10	LOT - 10	Electrical Industrial Trainers
11	LOT - 11	Hand Tools
12	LOT - 12	Set of Hand Tools
13	LOT - 13	Tool Kits
14	LOT - 14	Miscellaneous items
15	LOT - 15	Oxy-Acetylene welding set
16	LOT - 16	Precision Surface Grinder
17	LOT - 17	Foot Boards & Pallets
18	LOT - 18	Power Tools

TENDER NO: HMTI/PROJ/IMITC/MONYWA/S003/2018 Dated 28-12-2018**CLOSING ON: 14-01-2019, TIME 10.30 HRS****TECHNICAL BID OPENING ON: 14-01-2019, 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 – 5, 6, 9, 12, 14, 15, 16, 17 & 18 only:**

CLOSING ON: 23-01-2019, TIME 10.30 HRS**TECHNICAL BID OPENING ON: 23-01-2019, 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.3***(dt: 24 - 1 - 2019)*

Sl. #	LOT	ITEM
1	LOT - 1	Circular Saw Machine & Portable Disc Sander
2	LOT - 2	Band Saw machine
	LOT - 3	Wood Lathe & Bench Miller
4	LOT - 4	Pattern Lathe & Pattern Milling machine
5	LOT - 5	Planer, Sharpener, Top spindle & Router machine
6	LOT - 6	Sand Disc Machines & Sanders
7	LOT - 7	Dust collector & Planer machine
8	LOT - 8	Drilling machines

Sl. #	LOT	ITEM
9	LOT - 9	Electrical Machine Trainers
10	LOT - 10	Electrical Industrial Trainers
11	LOT - 11	Hand Tools
12	LOT - 12	Set of Hand Tools
13	LOT - 13	Tool Kits
14	LOT - 14	Miscellaneous items
15	LOT - 15	Oxy-Acetylene welding set
16	LOT - 16	Precision Surface Grinder
17	LOT - 17	Foot Boards & Pallets
18	LOT - 18	Power Tools

TENDER NO: HMTI/PROJ/IMITC/MONYWA/S003/2018 Dated 28-12-2018**CLOSING ON: 14-01-2019, TIME 10.30 HRS****TECHNICAL BID OPENING ON: 14-01-2019, 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 – 12, 14, 15, 16, 17 & 18 only:

CLOSING ON: 04-02-2019, TIME 10.30 HRS**TECHNICAL BID OPENING ON: 04-02-2019, 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.4***(dt: 04 - 02 - 2019)*

Sl. #	LOT	ITEM
1	LOT - 1	Circular Saw Machine & Portable Disc Sander
2	LOT - 2	Band Saw machine
	LOT - 3	Wood Lathe & Bench Miller
4	LOT - 4	Pattern Lathe & Pattern Milling machine
5	LOT - 5	Planer, Sharpener, Top spindle & Router machine
6	LOT - 6	Sand Disc Machines & Sanders
7	LOT - 7	Dust collector & Planer machine
8	LOT - 8	Drilling machines

Sl. #	LOT	ITEM
9	LOT - 9	Electrical Machine Trainers
10	LOT - 10	Electrical Industrial Trainers
11	LOT - 11	Hand Tools
12	LOT - 12	Set of Hand Tools
13	LOT - 13	Tool Kits
14	LOT - 14	Miscellaneous items
15	LOT - 15	Oxy-Acetylene welding set
16	LOT - 16	Precision Surface Grinder
17	LOT - 17	Foot Boards & Pallets
18	LOT - 18	Power Tools

TENDER NO: HMTI/PROJ/IMITC/MONYWA/S003/2018 Dated 28-12-2018**CLOSING ON: 14-01-2019, TIME 10.30 HRS****TECHNICAL BID OPENING ON: 14-01-2019, 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 bids for LOTS – 12, 14, 16, 17 & 18 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**