

Office of the Director
Directorate of Technical Education, Vocational and Industrial Training
Himachal Pradesh, Sunder Nagar

Invitation for Bids No.: GP001/2020

Date: 04/07/2020

Loan/Grant No. and Title: Loan No.: 3573-IND/ Himachal Pradesh Skill Development Project.

Deadline for submission of bids: **05/08/2020** up to 12:30PM

Contract Package (NCB) No. and Title: Supply of the **Machinery & equipment's** for Government Polytechnic (Women) Rehan District Kangra Himachal Pradesh to enhance Technical and Vocational Skills among the youth of Himachal Pradesh under following packages/lots:

Package No.	Title
HPSDP-DOTE/WP/01	Information Technology and Related equipment's: Lot 1: Computers and Laptops Lot 2: UPS
HPSDP-DOTE/WP/05	Engineering Workshop Equipment's and Related items: - Lot 1: Sheet Metal Workshops Hand Tools & Equipment's Lot 2: Electronics Workshops Hand Tools & Equipment's Lot 3: Electrical Workshops Hand Tools & Equipment's Lot 4: Carpentry Workshops Hand Tools & Equipment's Lot 5: Smithy Workshops Hand Tools & Equipment's Lot 6: Welding Workshops Hand Tools & Equipment's Lot 7: Fitting Workshops Hand Tools & Equipment's Lot 8: General Workshops Common Hand Tools & Equipment's Lot 9: Furniture for Workshops
HPSDP-DOTE/WP/06	Furniture for Classrooms, Labs, Workshop, Office Etc.: - Lot 1: Furniture for Common Facilities Lot 2: Labs, Workshops etc. Furniture
HPSDP-DOTE/WP/07	Civil Engineering Lab equipment's: - Lot 1: Applied Mechanics and Fluid Mechanics Building Construction Lab. Lot 2: Concrete Technology Lab. and Construction Material Labs. Lot 3: Surveying Lab. Lot 4: Soil and Highway Engineering Labs. Lot 5: Structure Mechanics Lab. Lot 6: Water Supply and Waste Water Engineering Lab. Lot 7: CACE Labs and Software.

- India has received a loan from the Asian Development Bank (ADB) towards the cost of "Himachal Pradesh Skill Development Project" and it intends to apply part of the proceeds of this financing to the payment under the Contract Package named above. Bidding is open to Bidders from eligible source countries of ADB.
- The "Directorate of Technical Education, Vocational and Industrial Training, Himachal Pradesh", represented by the Director ("The Purchaser") invites sealed bids from

eligible Bidders for the supply of various equipment's for **Government Polytechnic (Women) Rehan District Kangra Himachal Pradesh.**

3. **National Competitive Bidding** will be conducted in accordance with ADB's Single-stage: Two-envelope bidding procedure and is open to all Bidders from eligible countries as described in the Bidding Document.
4. Only eligible Bidders with the following key qualifications should participate in this bidding:

Package No.	Lot. No.	Contractual experience: Successful completion as main supplier within the last three (3) years, of at least One (1) contract with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply). The contract value of Lot is indicated below:	Average Annual Turnover: Minimum average annual turnover as indicated below calculated as total payments received by the Bidder for contracts completed or under execution over the last three (3) years. The Average Annual Turnover of the Lot is indicated below:
HPSDP-DOTE/WP/01	Lot 1:	INR 181.00 Lakhs	INR 451.00 Lakhs
	Lot 2:	INR 5.70 Lakhs	INR 14.00 Lakhs
HPSDP-DOTE/WP/05	Lot 1:	INR 4.40 Lakhs	INR 11.00 Lakhs
	Lot 2:	INR 2.40 Lakhs	INR 6.00 Lakhs
	Lot 3:	INR 2.00 Lakhs	INR 6.00 Lakhs
	Lot 4:	INR 7.00 Lakhs	INR 16.00 Lakhs
	Lot 5:	INR 4.70 Lakhs	INR 11.80 Lakhs
	Lot 6:	INR 6.00 Lakhs	INR 15.00 Lakhs
	Lot 7:	INR 6.30 Lakhs	INR 15.70 Lakhs
	Lot 8:	INR 10.00 Lakhs	INR 25.00 Lakhs
	Lot 9:	INR 8.50 Lakhs	INR 21.00 Lakhs
HPSDP-DOTE/WP/06	Lot 1:	INR 199.30 Lakhs	INR 500.00 Lakhs
	Lot 2:	INR 36.00 Lakhs	INR 89.00 Lakhs
HPSDP-DOTE/WP/07	Lot 1:	INR 7.50 Lakhs	INR 18.80 Lakhs
	Lot 2:	INR 15.00 Lakhs	INR 37.00 Lakhs
	Lot 3:	INR 29.00 Lakhs	INR 72.00 Lakhs
	Lot 4:	INR 6.90 Lakhs	INR 17.00 Lakhs
	Lot 5:	INR 17.80 Lakhs	INR 44.50 Lakhs
	Lot 6:	INR 4.80 Lakhs	INR 12.00 Lakhs
	Lot 7:	INR 52.20 Lakhs	INR 130.00 Lakhs

However, for complete eligibility and qualification requirements, respective bid document should be referred.

5. To obtain further information and inspect the bidding documents, Bidders should contact:

Attention: **The Director,**
Directorate of Technical Education, Vocational and Industrial Training
Circular Road, Lalit Chowk, Sunder Nagar, District: Mandi, Himachal Pradesh
ZIP code: 175018 ; Country: India.

Telephone & Fax: 01907-266120; 266722, E-mail address: techedu-hp@nic.in

6. To purchase the bidding documents in English language, eligible Bidders should write or visit at the office of the Purchaser at address stated above and pay **a non-refundable fee of INR 10,000 for each bidding document** in the form of **Bank Demand Draft**.

In case of written request, the document will be sent by post and no liability will be accepted, for loss or late delivery.

The bidders who wish to receive the bidding document by post/courier shall have to pay **for each bidding document** an additional amount of INR 3,000/- for delivery within India or USD 250 for delivery outside India. The method of payment will be through bank demand draft payable at Sundernagar, Himachal Pradesh, India.

The eligible bidders may otherwise download the bidding document for English language from the website: <http://techedu.hp.gov.in/>, such bidders shall be required to submit **INR 10,000** with their bid **for each bidding document** in the form of **Bank demand draft** in the name of the Director Technical Education, HP, Sundernagar towards cost of bidding document.

7. Deliver your bid
 - to the address above
 - On or before the deadline: **05/08/2020 at 12:30 PM**.
 - together with a Bid Security as described in the Bidding Document.
8. Bids will be opened on **05/08/2020 at 12:30 PM** in the presence of Bidders' representatives who choose to attend.
9. The Purchaser will not be responsible for any cost or expenses incurred by the bidder in connection with the preparation or delivery of bids.

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Director

Himachal Pradesh Skill Development Project

Loan No: 3573-IND

Procurement of Goods

Single-Stage: Two-Envelope Bidding Procedure

Bidding Document for Procurement of

***Supply of Engineering Workshop Equipment's and Related items
for***

**Government Polytechnic(Women) Rehan, Distt. Kangra
to enhance Technical and Vocational Skills
among the youth of Himachal Pradesh**

(HPSDP-DOTE/WP/05):

Lot 1: Sheet Metal Workshops Hand Tools & Equipment's

Lot 2: Electronics Workshops Hand Tools & Equipment's

Lot 3: Electrical Workshops Hand Tools & Equipment's

Lot 4: Carpentry Workshops Hand Tools & Equipment's

Lot 5: Smithy Workshops Hand Tools & Equipment's

Lot 6: Welding Workshops Hand Tools & Equipment's

Lot 7: Fitting Workshops Hand Tools & Equipment's

Lot 8: General Workshops Common Hand Tools & Equipment's

Lot 9: Furniture for Workshops

Volume 1 (Technical Bid)

Issued on: 04th July 2020

Invitation for Bids No.: GP001/2020

NCB No: HPSDP-DOTE/WP/05

Purchaser: Directorate of Technical Education, Vocational and Industrial Training, Himachal Pradesh represented by The Director.

Country: India

Preface

This Bidding Document for Procurement of Goods has been prepared by “*Directorate of Technical Education, Vocational and Industrial Training, Himachal Pradesh*” and is based on the Standard Bidding Document for the Procurement of Goods issued by the Asian Development Bank, dated *December 2015*.

This document reflects the structure and the provisions of the Master Procurement Document for the Procurement of Goods, except where specific considerations within the Asian Development Bank have required a change.

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Section 1 - Instructions to Bidders

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A. General

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| 1. Scope of Bid | <p>1.1 In connection with the Invitation for Bids (IFB) indicated in the Bid Data Sheet (BDS), the Purchaser, as indicated in the BDS, issues this Bidding Document for the supply of Goods and Related Services incidental thereto as specified in Section 6 (Schedule of Supply). The name, identification, and number of lots of the international competitive bidding (ICB) are provided in the BDS.</p> <p>1.2 Throughout this Bidding Document,</p> <ul style="list-style-type: none"> (a) the term “in writing” means communicated in written form and delivered against receipt; (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and (c) “day” means calendar day. |
| 2. Source of Funds | <p>2.1 The Borrower or Recipient (hereinafter called “Borrower”) indicated in the BDS has applied for or received financing (hereinafter called “funds”) from the Asian Development Bank (hereinafter called “ADB”) toward the cost of the project named in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.</p> <p>2.2 Payments by ADB will be made only at the request of the Borrower and upon approval by ADB in accordance with the terms and conditions of the Financing Agreement between the Borrower and ADB (hereinafter called the Financing Agreement), and will be subject in all respects to the terms and conditions of that Financing Agreement. No party other than the Borrower shall derive any rights from the Financing Agreement or have any claim to the funds.</p> |
| 3. Fraud and Corruption | <p>3.1 ADB’s Anticorruption Policy requires Borrowers (including beneficiaries of ADB-financed activity), as well as Bidders, Suppliers, and Contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, ADB</p> <ul style="list-style-type: none"> (a) defines, for the purposes of this provision, the terms set forth below as follows: <ul style="list-style-type: none"> (i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party; (ii) “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; (iii) “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the |

actions of a party;

- (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;
 - (v) "obstructive practice" means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an ADB investigation; (b) making false statements to investigators in order to materially impede an ADB investigation; (c) failing to comply with requests to provide information, documents or records in connection with an Office of Anticorruption and Integrity (OAI) investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding ADB's contractual rights of audit or access to information; and
 - (vi) "integrity violation" is any act which violates ADB's Anticorruption Policy, including (i) to (v) above and the following: abuse, conflict of interest, violations of ADB sanctions, retaliation against whistleblowers or witnesses, and other violations of ADB's Anticorruption Policy, including failure to adhere to the highest ethical standard.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the Contract;
 - (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations during the procurement or the execution of that contract, without the borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation;
 - (d) will impose remedial actions on a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate¹ in ADB-financed, administered, or supported activities or to benefit from an ADB-financed, administered, or supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations; and
 - (e) will have the right to require that a provision be included in bidding documents and in contracts financed by ADB, requiring Bidders, suppliers and contractors to permit ADB or its

¹ Whether as a Contractor, Subcontractor, Consultant, Manufacturer or Supplier, or Service Provider; or in any other capacity (different names are used depending on the particular Bidding Document).

representative to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by ADB.

- 3.2 Furthermore, Bidders shall be aware of the provision stated in Subclause 3.2 and Subclause 35.1 (c) of the General Conditions of Contract.

4. Eligible Bidders

- 4.1 A Bidder may be a natural person, private entity, or government-owned enterprise subject to ITB Sub-Clause 4.5-or any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a joint venture. In the case of a joint venture,
- (a) all parties to the Joint Venture shall be jointly and severally liable; and
 - (b) the Joint Venture shall nominate a representative who shall have the authority to conduct all businesses for and on behalf of any and all the parties of the Joint Venture during the bidding process and, in the event the Joint Venture is awarded the Contract, during contract execution.
- 4.2 A Bidder, and all parties constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section 5 (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract, including related services.
- 4.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if any of, including but not limited to, the following apply:
- (a) they have controlling shareholders in common; or
 - (b) they receive or have received any direct or indirect subsidy from any of them; or
 - (c) they have the same legal representative for purposes of this Bid; or
 - (d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to material information about or improperly influence the Bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
 - (e) a Bidder participates in more than one bid in this bidding process, either individually or as a partner in a joint venture, except for alternative offers permitted under ITB 13. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms

of ITB 4.3 (a)–(d) above, this does not limit the participation of a Bidder as a subcontractor in another bid or of a firm as a subcontractor in more than one Bid; or

- (f) a Bidder or any affiliated entity, participated as a consultant in the preparation of the design or technical specifications of the goods and services that are the subject of the Bid; or
- (g) a Bidder was affiliated with a firm or entity that has been hired (or is proposed to be hired) by the Purchaser or Borrower as Project Manager for the contract.

4.4 A firm shall not be eligible to participate in any procurement activities under an ADB-financed, administered, or supported project while under temporary suspension or debarment by ADB pursuant to its Anticorruption Policy (see ITB 3), whether such debarment was directly imposed by ADB, or enforced by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a temporary suspended or debarred firm will be rejected.

4.5 Government-owned enterprises in the Purchaser's country shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Purchaser.

4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

4.7 Firms shall be excluded if by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country or any payments to persons or entities in that country.

5. Eligible Goods and Related Services

5.1 All Goods and Related Services to be supplied under the Contract and financed by ADB, shall have their country of origin in eligible source countries as defined in ITB 4.2, and all expenditures under the Contract will be limited to such Goods and Related Services.

5.2 For purposes of this clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, transportation, installation, commissioning, training, and initial maintenance.

5.3 The term "country of origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components.

5.4 The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.

B. Contents of Bidding Document

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|----|--|-----|--|
| 6. | Sections of the Bidding Document | 6.1 | <p>The Bidding Document consist of Parts I, II, and III, which include all the sections indicated below, and should be read in conjunction with any addenda issued in accordance with ITB Clause 8.</p> <p>PART I Bidding Procedures</p> <ul style="list-style-type: none"> • Section 1 Instructions to Bidders (ITB) • Section 2 Bid Data Sheet (BDS) • Section 3 Evaluation and Qualification Criteria (EQC) • Section 4 Bidding Forms (BDF) • Section 5 Eligible Countries (ELC) <p>PART II Supply Requirements</p> <ul style="list-style-type: none"> • Section 6 Schedule of Supply (SS) <p>PART III Contract</p> <ul style="list-style-type: none"> • Section 7 General Conditions of Contract (GCC) • Section 8 Special Conditions of Contract (SCC) • Section 9 Contract Forms (COF) |
| | | 6.2 | <p>The Invitation for Bids (IFB) issued by the Purchaser is not part of the Bidding Document.</p> |
| | | 6.3 | <p>The Purchaser is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the source stated by the Purchaser in the IFB.</p> |
| | | 6.4 | <p>The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document, may result in the rejection of the Bid.</p> |
| 7. | Clarification of Bidding Document | 7.1 | <p>A prospective Bidder requiring any clarification on the Bidding Document shall contact the Purchaser in writing at the Purchaser's address indicated in the BDS. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than 21 days prior to the deadline for submission of Bids. The Purchaser shall forward copies of its response to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Document as a result of a clarification, it shall do so following the procedure under ITB 8 and ITB 24.2.</p> |
| 8. | Amendment of Bidding | 8.1 | <p>At any time prior to the deadline for submission of the Bids, the Purchaser may amend the Bidding Document by issuing addenda.</p> |

Document

- 8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document directly from the Purchaser in accordance with ITB 6.3.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of the Bids, pursuant to ITB 24.2

C. Preparation of Bids

- 9. Cost of Bidding** 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Purchaser shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10. Language of Bid** 10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the language specified in the BDS. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.
- 11. Documents Comprising the Bid** 11.1 The Bid shall comprise two envelopes submitted simultaneously, one containing the Technical Bid and the other the Price Bid, both envelopes enclosed together in an outer single envelope.
- 11.2 The Technical Bid submitted by the Bidder shall comprise the following:
- (a) Technical Bid Submission Sheet;
 - (b) Bid Security or Bid-Securing Declaration, in accordance with ITB 21;
 - (c) alternative Technical Bid, if permissible, in accordance with ITB 13;
 - (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 22;
 - (e) documentary evidence in accordance with ITB 16, establishing the Bidder's eligibility to bid;
 - (f) documentary evidence in accordance with ITB 17, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
 - (g) documentary evidence in accordance with ITB 18 and ITB 32, that the Goods and Related Services conform to the Bidding Document;

- (h) documentary evidence in accordance with ITB 19, establishing the Bidder's qualifications to perform the contract if its Bid is accepted; and
 - (i) any other document required in the BDS.
- 11.3 The Price Bid submitted by the Bidder shall comprise the following:
 - (a) Price Bid Submission Sheet and the applicable Price Schedules, in accordance with ITB 12, ITB 14, and ITB 15;
 - (b) alternative Price Bid corresponding to the alternative Technical Bid, if permissible, in accordance with ITB 13; and
 - (c) any other document required in the BDS.
- 12. Bid Submission Sheets and Price Schedules**
 - 12.1 The Bidder shall submit the Technical Bid Submission Sheet and the Price Bid Submission Sheet using the form furnished in Section 4 (Bidding Forms). These forms must be completed without any alterations to their format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
 - 12.2 The Bidder shall submit, as part of the Price Bid, the Price Schedules for Goods and Related Services, according to their origin as appropriate, using the forms furnished in Section 4 (Bidding Forms) and as required in the BDS.
- 13. Alternative Bids**
 - 13.1 Unless otherwise indicated in the BDS, alternative Bids shall not be considered.
- 14. Bid Prices and Discounts**
 - 14.1 The prices and discounts quoted by the Bidder in the Price Bid Submission Sheet and in the Price Schedules shall conform to the requirements specified below.
 - 14.2 All items in the Schedule of Supply must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is substantially responsive, the corresponding adjustment shall be applied in accordance with ITB 33.3.
 - 14.3 The price to be quoted in the Price Bid Submission Sheet shall be the total price of the Bid excluding any discounts offered. Absence of the total bid price in the Price Bid Submission Sheet may result in the rejection of the Bid.
 - 14.4 The Bidder shall quote discounts and the methodology for their application in the Price Bid Submission Sheet.
 - 14.5 The terms EXW, CIF, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce, at the date of the Invitation for Bids or as specified in the BDS.
 - 14.6 Prices proposed in the Price Schedule Forms for Goods and Related Services, shall be disaggregated, when appropriate, as indicated in

this sub-clause. This disaggregation shall be solely for the purpose of facilitating the comparison of Bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered

- (a) for Goods offered from within the Purchaser's country:
 - (i) the price of the goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of goods quoted ex works or ex factory, or on the previously imported goods of foreign origin quoted ex warehouse, ex showroom, or off-the-shelf;
 - (ii) sales tax and all other taxes applicable in the Purchaser's country and payable on the Goods if the Contract is awarded to the Bidder; and
 - (iii) the total price for the item.
- (b) for Goods offered from outside the Purchaser's country:
 - (i) the price of the goods quoted CIF (named port of destination), or CIP (border point), or CIP (named place of destination), in the Purchaser's country, as specified in the BDS;
 - (ii) the price of the goods quoted FOB port of shipment (or FCA, as the case may be), if specified in the BDS; and
 - (iii) the total price for the item.
- (c) for Related Services whenever such are specified in the Schedule of Supply:
 - (i) the local currency cost component of each item comprising the Related Services; and
 - (ii) the foreign currency cost component of each item comprising the Related Services, inclusive of all customs duties, sales and other similar taxes applicable in the Purchaser's country, payable on the Related Services, if the Contract is awarded to the Bidder.

14.7 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the BDS. A Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 32. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, but a Bid submitted with no indexes identified in the Tables of Adjustment Data, price adjustment shall be treated as zero for the purpose of price adjustment during the performance of the contract.

14.8 If so indicated in ITB 1.1, Bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Unless otherwise indicated in the BDS, prices quoted shall correspond to 100% of the items specified for each lot and to 100%

of the quantities specified for each item of a lot. Bidders wishing to offer any price discount for the award of more than one Contract shall specify in their Price Bids the price discount applicable to each package, or alternatively, to individual Contracts within the package. Price discounts shall be submitted in accordance with ITB 14.4, provided the Price Bids for all lots are submitted and opened at the same time.

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| 15. Currencies of Bid | 15.1 | <p>Bid prices shall be quoted in the following currencies:</p> <ul style="list-style-type: none"> (a) Bidders may express their bid price in any fully convertible currency. If a Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three currencies in addition to the currency of the Purchaser's country. (b) If some of the expenditures for the Related Services are to be incurred in the borrowing country, such expenditures should be expressed in the Bid and will be payable in the Purchaser's currency. |
| 16. Documents Establishing the Eligibility of the Bidder | 16.1 | <p>To establish their eligibility in accordance with ITB 4, Bidders shall</p> <ul style="list-style-type: none"> (a) complete the eligibility declarations in the Bid Submission Sheet, included in Section 4 (Bidding Forms); and (b) if the Bidder is an existing or intended Joint Venture in accordance with ITB 4.1, submit a copy of the Joint Venture Agreement, or a letter of intent to enter into such an Agreement. The respective document shall be signed by all legally authorized signatories of all the parties to the existing or intended Joint Venture, as appropriate. |
| 17. Documents Establishing the Eligibility of Goods and Related Services | 17.1 | <p>To establish the eligibility of the Goods and Related Services, in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms included in Section 4 (Bidding Forms).</p> |
| 18. Documents Establishing the Conformity of the Goods and Related Services to the Bidding Document | 18.1 | <p>To establish the conformity of the Goods and Related Services to the Bidding Document, the Bidder shall furnish as part of its Technical Bid documentary evidence that the Goods and Related Services conform to the requirements specified in Section 6 (Schedule of Supply).</p> |
| | 18.2 | <p>The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item-by-item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to those requirements, and if applicable, a statement of deviations and exceptions to the provisions of Section 6 (Schedule of Supply).</p> |

- 18.3 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in Section 6 (Schedule of Supply), are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in Section 6 (Schedule of Supply).
- 19. Documents Establishing the Qualifications of the Bidder**
- 19.1 To establish its qualifications to perform the Contract, the Bidder shall submit as part of its Technical Proposal the evidence indicated for each qualification criteria specified in Section 3 (Evaluation and Qualification Criteria).
- 19.2 If so required in the BDS, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section 4 (Bidding Forms) to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's country.
- 19.3 If so required in the BDS, a Bidder that does not conduct business within the Purchaser's country shall submit evidence that it will be represented by an agent in the country equipped and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.
- 20. Period of Validity of Bids**
- 20.1 Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Purchaser. A Bid valid for a shorter period shall be rejected by the Purchaser as nonresponsive.
- 20.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB 21, it shall also be extended 28 days beyond the deadline of the extended bid validity period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid.
- 21. Bid Security/ Bid-Securing Declaration**
- 21.1 Unless otherwise specified in the BDS, the Bidder shall furnish as part of its Bid, in original form, either a Bid-Securing Declaration or a bid security as specified in the BDS. In the case of a bid security, the amount and currency shall be as specified in the BDS.
- 21.2 If a Bid-Securing Declaration is required pursuant to ITB 21.1, it shall use the form included in Section 4 (Bidding Forms). The Purchaser will declare a Bidder ineligible to be awarded a Contract for a specified period of time, as indicated in the BDS, if a Bid-Securing Declaration is executed.
- 21.3 If a bid security is specified pursuant to ITB 21.1, the bid security

shall be, at the Bidder's option, in any of the following forms:

- (a) an unconditional bank guarantee,
- (b) an irrevocable letter of credit, or
- (c) a cashier's or certified check,

all from a reputable source from an eligible country as described in Section 5 (Eligible Countries). In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section 4 (Bidding Forms), or another form acceptable to the Purchaser. The form must include the complete name of the Bidder. The bid security shall be valid for 28 days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 20.2.

- 21.4 Unless otherwise specified in the BDS, any bid not accompanied by a substantially compliant bid security or Bid-Securing Declaration, if one is required in accordance with ITB 21.1, shall be rejected by the Purchaser as nonresponsive.
- 21.5 If a bid security is specified pursuant to ITB 21.1, the bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security pursuant to ITB 46.
- 21.6 If a bid security is specified pursuant to ITB 21.1, the bid security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract Agreement and furnished the required performance security.
- 21.7 The bid security may be forfeited or the Bid-Securing Declaration executed,
 - (a) if a Bidder withdraws its bid during the period of bid validity as specified by the Bidder on the Technical Bid Submission Sheet, except as provided in ITB 20.2; or
 - (b) if the successful Bidder fails to
 - (i) sign the Contract Agreement in accordance with ITB 45;
 - (ii) furnish a performance security in accordance with ITB 46; or
 - (iii) accept the arithmetical corrections of its bid in accordance with ITB 36.
- 21.8 The bid security or the Bid-Securing Declaration of a Joint Venture shall be in the name of the Joint Venture that submits the bid. If the Joint Venture has not been legally constituted at the time of bidding, the bid security or the Bid-Securing Declaration shall be in the names of all future partners as named in the letter of intent mentioned in ITB 4.1.

22. Format and Signing of Bid

- 22.1 The Bidder shall prepare one original set of the Technical Bid and one original set of the Price Bid as described in ITB 11 and clearly mark each "ORIGINAL - TECHNICAL BID" and "ORIGINAL - PRICE BID". In addition, the Bidder shall submit copies of the Technical Bid and the Price Bid, in the number specified in the BDS and clearly mark them "COPY NO... - TECHNICAL BID" and "COPY NO.... - PRICE BID". In the event of any discrepancy between the original and the copies, the original shall prevail.
- 22.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, except for unamended printed literature, shall be signed or initialled by the person signing the Bid. If a Bidder submits a deficient authorization, the Bid shall not be rejected in the first instance. The Purchaser shall request the Bidder to submit an acceptable authorization within the number of days as specified in the BDS. Failure to provide an acceptable authorization within the prescribed period of receiving such a request shall cause the rejection of the Bid.
- 22.3 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person signing the bid.

D. Submission and Opening of Bids

23. Sealing and Marking of Bids

- 23.1 Bidders may submit their bids by mail or by hand. When so specified in the BDS, Bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows:
- (a) Bidders submitting Bids by mail or by hand shall enclose the original of the Technical Bid, the original of the Price Bid, and each copy of the Technical Bid and each copy of the Price Bid, including alternative Bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL - TECHNICAL BID", "ORIGINAL - PRICE BID" and "COPY NO... - TECHNICAL BID" and "COPY NO.... - PRICE BID", as appropriate. These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB 23.2 to ITB 23.6.
 - (b) Bidders submitting Bids electronically shall follow the electronic bid submission procedures specified in the BDS.

- 23.2 The inner and outer envelopes shall
- (a) bear the name and address of the Bidder;
 - (b) be addressed to the Purchaser in accordance with ITB 24.1; and
 - (c) bear the specific identification of this bidding process indicated in the BDS.
- 23.3 The outer envelopes and the inner envelopes containing the Technical Bids shall bear a warning not to open before the time and date for the opening of Technical Bids, in accordance with ITB 27.1.
- 23.4 The inner envelopes containing the Price Bids shall bear a warning not to open until advised by the Purchaser in accordance with ITB 27.2.
- 23.5 If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the Bid.
- 23.6 Alternative Bids, if permissible in accordance with ITB 13, shall be prepared, sealed, marked, and delivered in accordance with the provisions of ITB 22 and ITB 23, with the inner envelopes marked in addition "ALTERNATIVE NO...." as appropriate
- 24. Deadline for Submission of Bids**
- 24.1 Bids must be received by the Purchaser at the address and no later than the date and time indicated in the BDS.
- 24.2 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Document in accordance with ITB 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
- 25. Late Bids**
- 25.1 The Purchaser shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 24. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.
- 26. Withdrawal, Substitution, and Modification of Bids**
- 26.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 22.2 (except that withdrawal notices do not require copies). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be
- (a) prepared and submitted in accordance with ITB 22 and ITB 23 (except that withdrawal notices do not require copies), and in addition, the respective inner and outer envelopes shall be clearly marked "Withdrawal," "Substitution," "Modification;" and

- (b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB 24.

26.2 Bids requested to be withdrawn in accordance with ITB 26.1 shall be returned unopened to the Bidders.

26.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Technical Bid Submission Sheet or any extension thereof.

27. Bid Opening

27.1 The Purchaser shall open the Technical Bids in public at the address, on the date, and time specified in the BDS in the presence of Bidder's designated representatives and anyone who choose to attend. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB 23.1, shall be as specified in the BDS.

27.2 The Price Bids will remain unopened and will be held in custody of the Purchaser until the time of opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Purchaser. If the Technical Bid and the Price Bid are submitted together in one envelope, the Purchaser may reject the Bid. Alternatively, the Price Bid may be immediately resealed for later evaluation.

27.3 First, envelopes marked "WITHDRAWAL" shall be opened, read out, and recorded, and the envelope containing the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out and recorded at bid opening.

27.4 Next, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Technical Bid and/or Substitution Price Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be opened, read out, and recorded. Substitution Price Bid will remain unopened in accordance with ITB 27.2. No envelope shall be substituted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.

27.5 Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Bid and/or Price Bid shall be modified unless the corresponding modification notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Bids, both Original as well as Modification, will remain unopened in accordance with ITB 27.2.

27.6 All other envelopes holding the Technical Bids shall be opened one

at a time, and the following read out and recorded

- (a) the name of the Bidder;
- (b) whether there is a modification or substitution;
- (c) the presence of a bid security or a Bid-Securing Declaration, if required; and
- (d) any other details as the Purchaser may consider appropriate.

Only Technical Bids and alternative Technical Bids read out and recorded at bid opening shall be considered for evaluation. Unless otherwise specified in the BDS, all pages of the Technical Bid Submission Sheet are to be initialed by at least three representatives of the Purchaser attending the bid opening. No Bid shall be rejected at the opening of Technical Bids except for late bids, in accordance with ITB 25.1.

- 27.7 The Purchaser shall prepare a record of the opening of Technical Bids that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, modification, or alternative offer; and the presence or absence of a bid security or a Bid-Securing Declaration, if one was required. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.
- 27.8 At the end of the evaluation of the Technical Bids, the Purchaser will invite bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Purchaser. Bidders shall be given reasonable notice of the opening of Price Bids.
- 27.9 The Purchaser will notify Bidders in writing who have been rejected on the grounds of being substantially nonresponsive to the requirements of the Bidding Document and return their Price Bids unopened.
- 27.10 The Purchaser shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, in the presence of Bidders' representatives who choose to attend at the address, on the date, and time specified by the Purchaser. The Bidder's representatives who are present shall be requested to sign a register evidencing their attendance.
- 27.11 All envelopes containing Price Bids shall be opened one at a time and the following read out and recorded
 - (a) the name of the Bidder;
 - (b) whether there is a modification or substitution;
 - (c) the Bid Prices, including any discounts and alternative offers;

and

- (d) any other details as the Purchaser may consider appropriate.

Only Price Bids, discounts, and alternative offers read out and recorded during the opening of Price Bids shall be considered for evaluation. Unless otherwise specified in the BDS, all pages of the Price Bid Submission Sheet and Price Schedules are to be initialed by at least three representatives of the Employer attending bid the opening. No Bid shall be rejected at the opening of Price Bids.

- 27.12 The Purchaser shall prepare a record of the opening of Price Bids that shall include, as a minimum: the name of the Bidder, the Bid Price (per lot if applicable), any discounts, and alternative offers. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders who submitted bids on time, and posted online when electronic bidding is permitted.

E. Evaluation and Comparison of Bids

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| 28. Confidentiality | <p>28.1 Information relating to the examination, evaluation, comparison, and qualification of Bids, and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on the Contract award is communicated to all Bidders.</p> <p>28.2 Any attempt by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and postqualification of the Bids or Contract award decisions may result in the rejection of its Bid.</p> <p>28.3 Notwithstanding ITB 28.2, from the time of opening the Technical Bids to the time of Contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.</p> |
| 29. Clarification of Bids | <p>29.1 To assist in the examination, evaluation, comparison and post-qualification of the Bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder with regard to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the evaluation of the Price Bids, in accordance with ITB 36.</p> <p>29.2 If a Bidder does not provide clarifications on its Bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.</p> |

- 30. Deviations, Reservations, and Omissions**
- 30.1 During the evaluation of Bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Document;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.
- 31. Examination of Technical Bids**
- 31.1 The Purchaser shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB 11.4 have been provided, and to determine the completeness of each document submitted.
- 31.2 The Purchaser shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the offer shall be rejected:
- (a) Technical Bid Submission Sheet in accordance with ITB 12.1;
 - (b) written confirmation of authorization to commit the Bidder;
 - (c) bid security or Bid-Securing Declaration, if applicable; and
 - (d) Manufacturer's Authorization, if applicable.
- 32. Responsiveness of Technical Bid**
- 32.1 The Purchaser's determination of a Technical Bid's responsiveness is to be based on the contents of the Technical Bid itself, as defined in ITB 11.
- 32.2 A substantially responsive Technical Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,
- (a) If accepted, would
 - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in Section 6 (Schedule of Supply); or
 - (ii) limits in any substantial way, inconsistent with the Bidding Document, the Purchaser's rights or the Bidder's obligations under the Contract; or
 - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Technical Bids.
- 32.3 The Purchaser shall examine the technical aspects of the Bid in particular, to confirm that all requirements of Section 6 (Schedule of Supply) have been met without any material deviation, reservation, or omission.
- 32.4 If a Technical Bid is not substantially responsive to the Bidding Document, it shall be rejected by the Purchaser and may not

subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.

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| 33. Nonmaterial Nonconformities | 33.1 | Provided that a Technical Bid is substantially responsive, the Purchaser may waive nonconformities in the Bid that does not constitute a material deviation, reservation, or omission. |
| | 33.2 | Provided that a Technical Bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the Price Bid of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid. |
| | 33.3 | Provided that a Technical Bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities or omissions. To this effect, the Bid Price shall be adjusted during evaluation of Price Bids, for comparison purposes only, to reflect the price of the missing or non-conforming item or component. The adjustment shall be made using the method indicated in Section 3 (Evaluation and Qualification Criteria). |
| 34. Qualification of the Bidder | 34.1 | The Purchaser shall determine to its satisfaction during the evaluation of Technical Bids whether Bidders meets the qualifying criteria specified in Section 3 (Evaluation and Qualification Criteria). |
| | 34.2 | The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 19. |
| | 34.3 | An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. A negative determination shall result into the disqualification of the Bid, in which event the Purchaser shall return the unopened Price Bid to the Bidder. |
| 35. Examination of Price Bids | 35.1 | Following the opening of Price Bids, the Purchaser shall examine the Price Bids to confirm that all documents and financial documentation requested in ITB 11.5 have been provided, and to determine the completeness of each document submitted. |
| | 35.2 | The Purchaser shall confirm that the following documents and information have been provided in the Price Bid. If any of these documents or information is missing, the offer shall be rejected: <ul style="list-style-type: none"> (a) Price Bid Submission Sheet in accordance with ITB 12.1; and (b) Price Schedules, in accordance with ITB 12, ITB 14, and ITB 15. |
| 36. Correction of Arithmetical Errors | 36.1 | During the evaluation of Price Bids, the Purchaser shall correct arithmetical errors on the following basis: <ul style="list-style-type: none"> (a) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, |

- the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected.
- (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
 - (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- 36.2 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its bid security may be forfeited, or its Bid-Securing Declaration executed.
- 37. Conversion to Single Currency**
- 37.1 For evaluation and comparison of Price Bids, the Purchaser shall convert all bid prices expressed in the amounts in various currencies into a single currency, using the selling exchange rates established by the source and on the date specified in the BDS.
- 38. Margin of Preference**
- 38.1 Unless otherwise specified in the BDS, a margin of preference shall not apply.
- 39. Evaluation of Price Bids**
- 39.1 The Purchaser shall use the criteria and methodologies indicated in this clause. No other criteria or methodology shall be permitted.
- 39.2 To evaluate a Price Bid, the Purchaser shall consider the following:
- (a) the bid price as quoted in accordance with ITB 14;
 - (b) price adjustment for correction of arithmetic errors in accordance with ITB 36.1;
 - (c) price adjustment due to discounts offered in accordance with ITB 14.4;
 - (d) price adjustment due to application of the evaluation criteria specified in Section 3 (Evaluation and Qualification Criteria). These criteria may include factors related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services which shall be expressed to the extent practicable in monetary terms to facilitate comparison of bids unless otherwise specified in Section 3; and
 - (e) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 37.
- 39.3 The Purchaser's evaluation of a bid will exclude and not take into account,
- (a) in the case of Goods offered from within the Purchaser's country, all sales tax and all other taxes, applicable in the Purchaser's country and payable on the Goods if the Contract

is awarded to the Bidder;

- (b) in the case of Goods offered from outside the Purchaser's country, all customs duties, sales tax, and other taxes, applicable in the Purchaser's country and payable on the Goods if the Contract is awarded to the Bidder; and
- (c) any allowance for price adjustment during the period of performance of the Contract, if provided in the Bid.

39.4 If this Bidding Document allows Bidders to quote separate prices for different lots (contracts), and the award to a single Bidder of multiple lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Price Bid Submission Sheet, is as specified in Section 3 (Evaluation and Qualification Criteria).

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| 40. Comparison of Bids | 40.1 | The Purchaser shall compare all substantially responsive Bids to determine the lowest evaluated bid, in accordance with ITB 39. |
| 41. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids | 41.1 | The Purchaser reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids at any time prior to Contract award, without thereby incurring any liability to the Bidders. In case of annulment, all Bids submitted and specifically, bid securities, shall be promptly returned to the Bidders. |

F. Award of Contract

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| 42. Award Criteria | 42.1 | The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid and is substantially responsive to the Bidding Document, provided further that the Bidder has remained qualified to perform the Contract satisfactorily. |
| | 42.2 | A Bid shall be rejected if the qualification criteria as specified in Section 3 (Evaluation and Qualification Criteria) are no longer met by the Bidder whose offer has been determined to be the lowest evaluated Bid. In this event the Purchaser shall proceed to the next lowest evaluated Bid to make a similar reassessment of that Bidder's capabilities to perform satisfactorily. |
| 43. Purchaser's Right to Vary Quantities at Time of Award | 43.1 | At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section 6 (Schedule of Supply), provided this does not exceed the percentages indicated in the BDS, and without any change in the unit prices or other terms and conditions of the Bid and the Bidding Document. |
| 44. Notification of Award | 44.1 | Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. |
| | 44.2 | At the same time, the Purchaser shall also notify all other Bidders of the results of the bidding. The Purchaser will publish in an English language newspaper or well-known freely accessible website the |

results identifying the Bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of Bidders whose Bids were rejected and the reasons for their rejection; and (v) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful Bidders may request in writing to the Purchaser for a debriefing seeking explanations on the grounds on which their Bids were not selected. The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after publication of contract award, requests a debriefing.

44.3 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

45. Signing of Contract

45.1 Promptly after notification, the Purchaser shall send to the successful Bidder the Agreement.

45.2 Within 28 days of receipt of the Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

46. Performance Security

46.1 Within 28 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section 9 (Contract Forms), or another form acceptable to the Purchaser.

46.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security or execution of the Bid-Securing Declaration. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

Section 2- Bid Data Sheet

A. General			
ITB 1.1	The number of the Invitation for Bids (IFB) is: GP001/2020		
ITB 1.1	The Purchaser is: Directorate of Technical Education, Vocational and Industrial Training, Himachal Pradesh represented by The Director.		
ITB 1.1	<p>The name of the National competitive bidding (NCB) is: <i>Supply of Engineering Workshop Equipment's and Related items for Government Polytechnic(Women) Rehan, Distt. Kangra to enhance Technical and Vocational Skills among the youth of Himachal Pradesh;</i></p> <p>The identification number of the NCB is: HPSDP-DOTE/WP/05</p> <p>Bids are being invited for individual contracts (Lots). Bidders can bid either one or more than one Lot and has to submit the Bid Security accordingly as specified against each Lot.</p> <p>The number and identification of Packages and Lots comprising this NCB is: HPSDP-DOTE/WP/05 comprising of 9 lots:</p>		
	S. No.	Package No.	Lot
	1	HPSDP-DOTE/WP/05 <i>Supply of Engineering Workshop Equipment's and Related items</i>	Lot-1: Sheet Metal Workshops Hand Tools & Equipment's Lot-2: Electronics Workshops Hand Tools & Equipment's Lot-3: Electrical Workshops Hand Tools & Equipment's Lot-4: Carpentry Workshops Hand Tools & Equipment's Lot-5: Smithy Workshops Hand Tools & Equipment's Lot-6: Welding Workshops Hand Tools & Equipment's Lot-7: Fitting Workshops Hand Tools & Equipment's Lot-8: General Workshops Common Hand Tools & Equipment's Lot-9: Furniture for Workshops

ITB 2.1	The Borrower is: India
ITB 2.1	<p>The name of the Project is:</p> <p>Himachal Pradesh Skill Development Project.</p> <p>Loan No: 3573-IND</p>
B. Contents of Bidding Document	
ITB 7.1	<p>For <u>clarification purposes</u> only, the Purchaser's address is:</p> <p>Attention: The Director, Technical Education, Vocational and Industrial Training</p> <p>Circular Road, City: Sunder Nagar, District: Mandi</p> <p>Himachal Pradesh, ZIP code: 175018, Country: India</p> <p>Telephone & Fax: 01907-266120; 266722</p> <p>E-mail address: techedu-hp@nic.in</p> <p>A pre-bid meeting shall be held on 15th July 2020 at 11:30 AM in the following location:</p> <p>Conference Hall 1st Floor,</p> <p>Directorate of Technical Education, Vocational and Industrial Training</p> <p>Circular Road, City: Sunder Nagar, District: Mandi, Himachal Pradesh, ZIP code: 175018, Country: India</p> <p>Telephone& Fax: 01907-266120; 266722</p> <p>E-mail address: techedu-hp@nic.in</p> <p>Notwithstanding the provisions of ITB 7.1, the Employer shall only upload the Clarifications on the bidding document on the freely accessible website : http://techedu.hp.gov.in/ instead of forwarding the copies to the bidders. Bidders are requested to keep themselves updated by regular checking.</p>
ITB 8.2	<p>The subclause 8.2 in its entirety stands replaced with:</p> <p>"Any addendum issued shall be a part of the bidding document.</p> <p>The addendum shall only be uploaded on the freely accessible website: http://techedu.hp.gov.in/ instead of forwarding the copies to the bidders. Bidders are requested to keep themselves updated by regular checking.</p>

C. Preparation of Bids	
ITB 10.1	The language of the Bid is: English
ITB 11.2 (i)	<p>The Bidder shall submit with its Technical Bid, the following additional documents:</p> <ol style="list-style-type: none"> 1. Printed catalogues, if any, with detailed technical information of the offered goods/equipment. 2. The bidder or each member of Joint Venture/ Intended Joint Venture as the case may be, shall submit their PAN No. (Permanent Account Number) issued by the Department of Income Tax, Government of India with the photocopy of the PAN card; <p>Should the bidder or each/any member of Joint Venture/ Intended Joint Venture have not been issued with such PAN No., the same shall be submitted before signing the Contract;</p> <ol style="list-style-type: none"> 3. Evidence of Enlistment of competent authority in Appropriate Class valid at the time of tender. 4. Sales tax/GST registration certificate. 5. If the bid or the Joint Venture Agreement/ Intent to enter into Joint Venture as the case may be, is signed by a person who is retired or relieved from the Government organization as a Gazetted or Non-Gazetted Officer within a period of two years preceding the deadline for the Bid submission, the bidder shall also submit a permission obtained from the organization last served by such person, allowing the person to do so.
ITB 11.3 (c)	The Bidder shall submit with its Price Bid the following additional documents: <i>Nil</i>
ITB 12.2	The units and rates in figures entered into the Price Schedules should be type written or if written by hand, must be in print form. Price Schedules not presented accordingly may be considered non responsive.
ITB 13.1	Alternative Bids <u>shall not be</u> permitted
ITB 14.5	The Incoterms edition is: 2010

ITB 14.6 (b) (i)	For Goods offered from outside the Purchaser's country, the Bidder shall quote prices using the following Incoterms: CIP (Sundernagar Distt Mandi Himachal Pradesh, INDIA)
ITB 14.6 (b) (ii)	In addition to the above, the Bidder shall quote prices for Goods offered from outside the Purchaser's country using the following Incoterms: Not Applicable
ITB 14.7	The prices quoted by the Bidder shall be: <i>fixed during the Bidder's performance of the Contract and not subject to variation on any account.</i>
ITB 14.8	Prices quoted for each lot shall correspond at least to <u>100 %</u> of the items specified for each lot. Prices quoted for each item of a lot shall correspond at least to <u>100 %</u> of the quantities specified for this item of a lot.
ITB 15.1(a)	The text "Bidders may express their bid price in any fully convertible currency. If a Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three currencies in addition to the currency of the Purchaser's country." stands replaced with: "Bidders are required to express their bid price in Indian National Rupees (INR) only".
ITB 19.2	The Bidder shall include with its bid the Manufacturer's Authorization. <i>or</i> The Bidder shall submit documentation with its bid documentation to substantiate that it is an authorized dealer, distributor or reseller of the goods being procured valid until the expiration of Bid validity.
ITB 19.3	The Bidder <u>shall be</u> required to include with its bid, evidence that it will be represented by an Agent in the Purchaser's country.
ITB 20.1	The bid validity period shall be <u>120</u> days.
ITB 21.1	The Bidder shall furnish a Bid Security lot wise as indicated below:

	S.no.	Lot no.	Description of lot	Bid Security (INR)
	1.	Lot-1	Sheet Metal Workshops Hand Tools & Equipment's	10900/-
	2.	Lot 2:	Electronics Workshops Hand Tools & Equipment's	5950/-
	3.	Lot 3:	Electrical Workshops Hand Tools & Equipment's	5850/-
	4.	Lot 4:	Carpentry Workshops Hand Tools & Equipment's	17550/-
	5.	Lot 5:	Smithy Workshops Hand Tools & Equipment's	11850/-
	6.	Lot 6:	Welding Workshops Hand Tools & Equipment's	15450/-
	7.	Lot 7:	Fitting Workshops Hand Tools & Equipment's	15750/-
	8.	Lot 8:	General Workshops Common Hand Tools & Equipment's	25050/-
	9.	Lot 9:	Furniture Workshops for	21350/-
For a bidder who participates in more than one Lot and in case the bid security amount is less, the purchaser has the right to consider the appropriate lot for evaluation.				

ITB 21.2	The ineligibility period will be: ITB 21.2 stands deleted.
ITB 21.4	The provision in subclause 21.4 of Section-1-Instruction to bidders shall prevail.
ITB 22.1	In addition to the original Bid, the number of copies is: <i>one</i>
ITB 22.2	<p>The written confirmation of Authorization to sign on behalf of the Bidder shall consist of:</p> <p>A Power of Attorney (in original or duly notarized) stating the name, position held and signature of each person giving the authority, and the name, position and signature of the person authorized to sign the bid or Joint Venture Agreement/ Intent to Joint Venture as the case may be; or</p> <p>A Board resolution (original or duly notarized) in favour of the duly authorized representative of the bidder (or the member of the Joint Venture/ Intended Joint Venture) allowing him to sign the bid or Joint Venture Agreement/ Intent to Joint Venture as the case may be.</p>
ITB 22.2	The bidder shall submit an acceptable authorization within 14 days.
D. Submission and Opening of Bids	
ITB 23.1	Bidders <u>shall not</u> have the option of submitting their bids electronically.
ITB 23.1 (b)	If Bidders shall have the option of submitting their bids electronically, the electronic bidding submission procedures shall be: <u>Not Applicable</u>
ITB 23.2 (c)	The identification of this bidding process is: HPSDP-DOTE/WP/05
ITB 24.1	<p>For <u>bid submission purposes</u> only, the Purchaser's address is:</p> <p>Attention: The Director, Technical Education, Vocational and Industrial training</p> <p>Circular Road, City: Sunder Nagar, District: Mandi</p> <p>Himachal Pradesh, ZIP code: 175018</p> <p>Country: India</p>

ITB 24.1	The deadline for bid submission is: Date: 05 th August 2020 Time: 12:30 PM
ITB 27.1	The technical bid opening shall take place at: Office of the Director Directorate of Technical Education, Vocational and Industrial training Circular Road City: Sunder Nagar, District: Mandi Himachal Pradesh, ZIP code: 175018 Country: India Date: 05 th August 2020 Time: 12:30 PM
ITB 27.1	Electronic bid opening procedure shall be as follows: <u>Not Applicable</u>
ITB 27.6	The Technical Bid Submission Sheet shall be initialed by <u>Three</u> representatives of the Purchaser attending Technical Bid opening.
ITB 27.11	The Price Bid Submission Sheet and Price Schedules shall be initialed by <u>Three</u> representatives of the Purchaser attending Price Bid opening.
E. Evaluation and Comparison of Bids	
ITB 37.1	The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: Indian National Rupees (INR) The source of the selling exchange rate shall be: <u>Not Applicable</u> ; Bidders are required to express their bid price in Indian National Rupees (INR) only. The date for the selling exchange rate shall be: <u>Not Applicable</u>
ITB 38.1	A margin of preference <u>shall not</u> apply.
F. Award of Contract	
ITB 43.1	The maximum percentage by which quantities may be increased is: 20% The maximum percentage by which quantities may be decreased is: 20%

Section 3- Evaluation and Qualification Criteria

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1. Technical Evaluation

1.1 Technical Criteria

The Goods and Related Services offered by the bidder shall comply with specifications described in Section 6 (Schedule of Supply). The bids shall be for complete scope of work. Any bid for part scope of work or related services shall be held non-responsive and shall be rejected.

The cost of all quantifiable deviations or deficiencies from the technical requirements as specified in Section 6 (Schedule of Supply) shall be evaluated. The Purchaser will make its own assessment of the cost of these deviations or deficiencies for the purpose of ensuring fair comparison of Bids.

1.2 Margin of Preference

A Margin of Preference shall not apply.

1.3 Economic Criteria

1.3.1 Adjustment for Scope of Supply and Services

i) Local Handling and Inland Transport: Costs for inland transportation, insurance, and other incidental costs for delivery of the goods from the EXW premises, or port of entry, or border point to Project Site as defined in Section 6 (Schedule of Supply), shall be quoted in the Price Schedule for Related Services to Be Offered from Outside and Within the Purchaser's Country provided In Section 4 (Bidding Forms). These costs will be taken into account during bid evaluation. If a Bidder fails to include such costs in its Bid, then these costs will be estimated by the Purchaser on the basis of published tariffs by the rail or road transport agencies, insurance companies, or other appropriate sources, and added to EXW or CIF or CIP price.

ii) Minor Omissions and Missing Items: Pursuant to ITB 32.3, the cost of all quantifiable nonmaterial nonconformities or omissions from the contractual and commercial conditions shall be evaluated. The Purchaser will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids.

1.3.2 Adjustment for Deviations from the Terms of Payment

Deviations from the Terms of Payment as specified in Sub-Clause 16.1 of General Conditions of Contract (GCC) read with Special Conditions of Contract (SCC) are not permitted.

1.3.3 Adjustment for Deviations from the Delivery and Completion Schedule

Bid offering Delivery and Completion Schedule exceeding those specified in the Delivery and Completion Schedule in Section 6 shall be rejected.

1.3.4 Operation and Maintenance Cost

Operation and Maintenance Cost shall not have any impact on the Bid Price.

1.3.5 Spare Parts

Bidder shall supply spare parts as specified in the Schedule of Supply in Section 6.

1.3.6 Multiple Lots (Contracts)

If the Works are grouped in multiple (Lots) contracts and pursuant to ITB 39.4, the Purchaser shall evaluate and compare Bids on the basis of a contract, or a combination of contracts, or as a total of contracts in order to arrive at the least-cost combination for the Purchaser by taking into account discounts offered by Bidders in case of award of multiple contracts.

If a Bidder submits several successful (lowest evaluated substantially responsive) bids, the evaluation will also include an assessment of the Bidder's capacity to meet the aggregated qualifying requirements relating to Average annual turnover requirements for each package as specified in Section-6 list of Goods and related services.

S.no.	Package No.	Lot No.
1	HPSDP- DOTE/WP/05 <i>Supply of Engineering Workshop Equipment's and Related items</i>	Lot1: Sheet Metal Workshops Hand Tools & Equipment's Lot2: Electronics Workshops Hand Tools & Equipment's Lot3: Electrical Workshops Hand Tools & Equipment's Lot4: Carpentry Workshops Hand Tools & Equipment's Lot5: Smithy Workshops Hand Tools & Equipment's Lot6: Welding Workshops Hand Tools & Equipment's Lot7: Fitting Workshops Hand Tools & Equipment's Lot8: General Workshops Common Hand Tools & Equipment's Lot9: Furniture for Workshops

2. Qualification Criteria

Bidders shall meet the qualification criteria set by the Purchaser on a pass-fail basis. Unless, specifically indicated otherwise, it is the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries or affiliates that must satisfy these criteria.

Part 1: Recommended Criteria

The following criteria are to establish the critical qualifications of the Bidder:

2.1 Eligibility

Eligibility for participation by Bidders in terms of nationality, conflict of interest, status as government-owned enterprise and sanctions either by ADB or other international development institutions.

2.2 Experience and Technical Capacity

2.2.1 Contractual Experience

One (1) contracts successfully completed as main supplier within the last three (3) years. Value, nature, and complexity of these contracts should be comparable to the contract to be let.

2.3 Financial Situation

2.3.1 Historical Financial Performance

Soundness of the Bidder's financial position showing long-term profitability demonstrated through audited annual financial statements (balance sheet, income statement) for the last three (3) years.

As a minimum, the Bidder's net worth for the last three (3) year calculated as the difference between total assets and total liabilities should be positive.

2.3.2 Size of Operation (Average Annual Turnover)

Average annual turnover defined as the total payments received by the Bidder for contracts completed or under execution over the last three (3) years should not be less than

Lot-1: INR 11.00 Lakhs

Lot-2: INR 6.00 Lakhs

Lot-3: INR 6.00 Lakhs

Lot-4: INR 16.00 Lakhs

Lot-5: INR 11.80 Lakhs

Lot-6: INR 15.00 Lakhs

Lot-7: INR 15.70 Lakhs

Lot-8: INR 25.00 Lakhs

Lot-9: INR 21.00 Lakhs

The specific requirements for each of these criteria are provided in Part 2.

Part 2: Specific Requirements for the Criteria

The legal entity or entities comprising the Bidder, and not the Bidder's parent companies, subsidiaries, or affiliates, must satisfy the qualification criteria described below.

2.1 Eligibility

2.1.1 Eligibility

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

2.1.1.1 Nationality

Nationality in accordance with ITB Subclause 4.2.	must meet requirement	must meet requirement	must meet requirement	not applicable	Technical Bid Submission Sheet; Forms ELI – 1 and ELI - 2
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2.1.1.2 Conflict of Interest

No conflicts of interest in accordance with ITB Subclause 4.3.	must meet requirement	must meet requirement	must meet requirement	not applicable	Technical Bid Submission Sheet
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2.1.1.3 ADB Eligibility

Not having been declared ineligible by ADB, as described in ITB Subclause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Technical Bid Submission Sheet
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2.1.1.4 Government-Owned Enterprise

Bidder required to meet conditions of ITB Subclause 4.5.	must meet requirement	must meet requirement	must meet requirement	not applicable	Technical Bid Submission Sheet; Forms ELI – 1 and ELI - 2
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2.1.1.5 United Nations Eligibility

Not having been excluded by an act of compliance with a United Nations Security Council resolution in accordance with ITB Subclause 4.7.	must meet requirement	must meet requirement	must meet requirement	not applicable	Technical Bid Submission Sheet
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2.2 Experience and Technical Capacity

2.2.1 Contractual Experience

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
<p>Successful completion as main supplier within the last three (3) years, of at least One (1) contract with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply). The contract value lot wise is indicated below:</p> <p>a.) Lot-1: - Sheet Metal Workshops Hand Tools & Equipment's: INR 4.40 Lakhs</p> <p>b.) Lot-2: - Electronics Workshops Hand Tools & Equipment's: INR 2.40 Lakhs</p> <p>c.) Lot-3: - Electrical Workshops Hand Tools & Equipment's: INR 2.00 Lakhs</p> <p>d.) Lot-4: - Carpentry Workshops Hand Tools & Equipment's: INR 7.00 Lakhs</p> <p>e.) Lot-5: - Smithy Workshops Hand Tools & Equipment's: INR 4.70 Lakhs</p> <p>f.) Lot 6: Welding Workshops Hand Tools & Equipment's: INR 6.00 Lakhs</p> <p>g.) Lot 7: Fitting Workshops Hand Tools & Equipment's: INR 6.30 Lakhs</p> <p>h.) Lot8: General Workshops Common Hand Tools & Equipment's: INR 10.00 Lakhs</p> <p>i.) Lot 9: Furniture for Workshops: INR 8.50 Lakhs</p> <p>Bidder bidding for more than 1 (one) Lot has to submit the Work Experience accordingly.</p>	must meet requirement	must meet requirement	not applicable	not applicable	Form EXP - 1

- Document to be attached to substantiate the successful completion of work for individual lot.

2.3 Financial Situation

2.3.1 Historical Financial Performance

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Submission of audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for each of the last three (3) years calculated as the difference between total assets and total liabilities should be positive.	must meet requirement	not applicable	must meet requirement	not applicable	Form FIN - 1

2.3.2 Size of Operation (Average Annual Turnover)

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Minimum average annual turnover as indicated below calculated as total payments received by the Bidder for contracts completed or under execution over the last three (3) years. The Average Annual Turnover lot wise is indicated below: a) Lot-1: - Sheet Metal Workshops Hand Tools & Equipment's: INR 11.00 Lakhs b) Lot-2: - Electronics Workshops Hand Tools & Equipment's: INR 6.00 Lakhs c) Lot-3: - Electrical Workshops Hand Tools & Equipment's: INR 6.00 Lakhs d) Lot-4: - Carpentry Workshops Hand Tools & Equipment's: INR 16.00 Lakhs	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 2

<p>e) Lot-5: - Smithy Workshops Hand Tools & Equipment's: INR 11.80 Lakhs</p> <p>f) Lot 6: Welding Workshops Hand Tools & Equipment's: INR 15.00 Lakhs</p> <p>g) Lot 7: Fitting Workshops Hand Tools & Equipment's: INR 15.70 Lakhs</p> <p>h) Lot 8: General Workshops Common Hand Tools & Equipment's: INR 25.00 Lakhs</p> <p>i) Lot 9: Furniture for Workshops: INR 21.00 Lakhs</p> <p>Bidder bidding for more than 1 (one) Lot has to submit the turnover accordingly. In case of lesser amount of turnover submitted then the lot applied, the purchaser has the right to consider the appropriate lot for evaluation.</p>					
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Section 4- Bidding Forms

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Technical Bid Submission Sheet

-- Note --

The Bidder must accomplish the Technical Bid Submission Sheet on its letterhead clearly showing the bidder's complete name and address.

Date: _____
 NCB No.: _____
 Invitation for Bid No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including the Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8. _____
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule specified in Section 6(Schedule of Supply), the following Goods and Related Services. _____
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of _____ days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (d) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries in accordance with ITB 4.2. _____.
- (e) We, including any subcontractors or suppliers for any part of the contract, do not have any conflict of interest in accordance with ITB 4.3.
- (f) We are not participating, as a Bidder in more than one Bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers in accordance with the Bidding Document.
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the ADB, under the Purchaser's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council.
- (h) [We are not a government-owned enterprise] / [We are a government-owned enterprise but meet the requirements of ITB 4.5].¹

¹ Use one of the two options as appropriate.

- (i) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Form of Bid Security

[Insert bank's name and address of issuing branch or office]¹

Beneficiary: *[insert name and address of purchaser]*

Date:*[insert date]*

Bid Guarantee No.:*[insert number]*

We have been informed that *[insert name of the bidder]*. (hereinafter called "the Bidder") has submitted to you its bid dated *[insert date]*. (hereinafter called "the Bid") for the execution of *[insert name of contract]*. under Invitation for Bids No. *[insert IFB number]*. ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *[insert name of bank]*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount in figures]**[insert amount in words]*. upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Technical Bid Submission Sheet and Price Bid Submission Sheet; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Agreement; or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

¹ All italicized text is for use in preparing this form and shall be deleted from the final document. Input of information to be completed by the bidder.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid Security for and on behalf of _____

Date _____

-- Note --

In case of a joint venture, the bid security must be in the name of all partners to the joint venture that submits the bid.

Manufacturer's Authorization

Date: *[insert date (as day, month, and year) of bid submission]*

NCB No.: *[insert number of bidding process]*

To:..... *[insert complete name of purchaser]*.....

WHEREAS

We *[insert complete name of manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of manufacturer's factories]*, do hereby authorize *[insert complete name of bidder]* to submit a bid the purpose of which is to provide the following goods, manufactured by us *[insert name and/or brief description of the goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions, with respect to the goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of manufacturer]*

Dated on _____ day of _____, _____ *[insert date of signing]*

-- Note --

All italicized text is for use in preparing this form and shall be deleted from the final document. Input of information to be completed by the bidder.

The bidder shall require the manufacturer to fill out this form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the manufacturer. The bidder shall include it in its bid, if so indicated in the BDS.

Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria), the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of Joint Venture, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers and e-mail address)	
<p>Attached are copies of the following documents:</p> <p><input type="checkbox"/> 1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2</p> <p><input type="checkbox"/> 2. Authorization to represent the firm or Joint Venture named above, in accordance with ITB 22.2</p> <p><input type="checkbox"/> 3. In case of Joint Venture, letter of intent to form Joint Venture or Joint Venture agreement, in accordance with ITB 4.1</p> <p><input type="checkbox"/> 4. In case of a government-owned enterprise, any additional documents not covered under 1 above required to comply with ITB 4.5</p>	

Form ELI - 2: Joint Venture Information Sheet

Each member of the Joint Venture must fill out this form separately.

Joint Venture Information	
Bidder's legal name	
Joint Venture Partner's legal name	
Joint Venture Partner's country of constitution	
Joint Venture Partner's year of constitution	
Joint Venture Partner's legal address in country of constitution	
Joint Venture Partner's authorized representative information (name, address, telephone numbers, fax numbers and e-mail address)	
Attached are copies of the following documents: <ul style="list-style-type: none"> <input type="checkbox"/> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2 <input type="checkbox"/> 2. Authorization to represent the firm named above, in accordance with ITB 22.2 <input type="checkbox"/> 3. In the case of government-owned enterprise, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5 	

Form EXP - 1: Contractual Experience

Fill out one (1) form per contract.

Contractual Experience		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Manufacturer <input type="checkbox"/> Supplier <input type="checkbox"/> Subcontractor	
Total Contract Amount		
If partner in a joint venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Purchaser's name Address Telephone/Fax Number E-mail		
Description of the similarity in accordance with Criterion 2.2.1 of Section 3		
<p>Successful completion as main supplier within the last three (3) years, of at least One (1) contract with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply). The contract value Lot-wise is indicated below:</p> <p>a) Lot-1: - Sheet Metal Workshops Hand Tools & Equipment's: INR 4.40 Lakhs</p> <p>b) Lot-2: - Electronics Workshops Hand Tools & Equipment's: INR 2.40 Lakhs</p> <p>c) Lot-3: - Electrical Workshops Hand Tools & Equipment's: INR 2.00 Lakhs</p> <p>d) Lot-4: - Carpentry Workshops Hand Tools & Equipment's: INR 7.00 Lakhs</p> <p>e) Lot-5: - Smithy Workshops Hand Tools & Equipment's: INR 4.70 Lakhs</p> <p>f) Lot 6: Welding Workshops Hand Tools & Equipment's: INR 6.00 Lakhs</p> <p>g) Lot 7: Fitting Workshops Hand Tools & Equipment's: INR 6.30 Lakhs</p> <p>h) Lot8: General Workshops Common Hand Tools & Equipment's: INR 10.00 Lakhs</p> <p>i) Lot 9: Furniture for Workshops: INR 8.50 Lakhs</p>		

Form FIN - 1: Historical Financial Performance

Each Bidder must fill out this form.

In case of joint ventures, each Joint Venture Partner must fill out this form separately, and provide the Joint Venture Partner name below:

Joint Venture Partner: _____

Financial Data for Previous 3 Years [INR or \$ Equivalent]		
Year 1:	Year 2:	Year 3__:

Information from Balance Sheet

Total Assets (TA)			
Total Liabilities (TL)			
Net Worth = TA-TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital = CA - CL			

Most Recent Working Capital		To be obtained for most recent year and carried forward to FIN-3 Line 1; in case of joint ventures, to the corresponding Joint Venture Partner's FIN-3.
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Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- ☐ Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last **three (3)** years, as indicated above, complying with the following conditions:
- Unless otherwise required by Section 3 of the Bidding Documents, all such documents reflect the financial situation of the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries, or affiliates.
 - Historical financial statements must be audited by a certified accountant.
 - Historical financial statements must be complete, including all notes to the financial statements.
 - Historical financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN - 2: Size of Operation (Average Annual Turnover)

Each Bidder must fill out this form.

The information supplied should be the Annual Turnover of the Bidder or each member of a Joint Venture in terms of the amounts billed to clients for each year for work in progress or completed, converted to US Dollars at the specified exchange rate.

In case of joint ventures, each Joint Venture Partner must fill out this form separately, and provide the Joint Venture Partner name below:

Joint Venture Partner: _____

Annual Turnover Data for the Last 3 Years			
Year	Amount Currency	Exchange Rate	INR or \$ Equivalent
Average Annual Turnover (AAT)			

Section 5- Eligible Countries

This Section contains the list of eligible countries.

1. Afghanistan
2. Armenia
3. Australia
4. Austria
5. Azerbaijan
6. Bangladesh
7. Belgium
8. Bhutan
9. Brunei Darussalam
10. Cambodia
11. Canada
12. China, People's Republic of
13. Cook Islands
14. Denmark
15. Fiji
16. Finland
17. France
18. Georgia
19. Germany
20. Hong Kong, China
21. India
22. Indonesia
23. Ireland
24. Italy
25. Japan
26. Kazakhstan
27. Kiribati

28. Korea, Republic of
29. Kyrgyz Republic
30. Lao PDR
31. Luxembourg
32. Malaysia
33. Maldives
34. Marshall Islands
35. Micronesia, Federated States of
36. Mongolia
37. Myanmar
38. Nauru
39. Nepal
40. The Netherlands
41. New Zealand
42. Norway
43. Pakistan
44. Palau
45. Papua New Guinea
46. Philippines
47. Portugal
48. Samoa
49. Singapore
50. Solomon Islands
51. Spain
52. Sri Lanka
53. Sweden
54. Switzerland
55. Taipei, China
56. Tajikistan
57. Thailand
58. Timor-Leste

- 59. Tonga
- 60. Turkey
- 61. Turkmenistan
- 62. Tuvalu
- 63. United Kingdom
- 64. United States
- 65. Uzbekistan
- 66. Vanuatu
- 67. Viet Nam

Section 6- Schedule of supply

Contents

1. List of Goods and Related Services
2. Delivery and Completion Schedule
3. Technical Specifications
4. Drawings

1. List of Goods and Related Services

Package Name: Supply of Engineering Workshop Equipment's and Related items for Government Polytechnic (Women) Rehan, Distt. Kangra to enhance technical and vocational skills among the youth of Himachal Pradesh (HPSDP-DOTE/WP/05)

The Goods and Related Services are grouped in Lots. Bidders shall have the option of submitting Bids for one, any combination, or all of the lots. Lots shall not be further subdivided for the purpose of bidding. The bidder is required to supply the items as mentioned below for the respective Package and Lot(s) for which bidding.

Besides the supply of equipment, the bidder shall also carry-out required related services including unloading, installation & commissioning, after sales warranty & maintenance as well as the relevant handholding to the trainers of the Government Polytechnic (Women) Rehan, Distt. Kangra for proper usage and operations. The bidder shall do the necessary site preparation including electrical work, earthing, minor civil work, etc. as required for installation & commissioning of the equipment's/goods. While doing the site preparation the bidder shall ensure that aesthetics of the labs/workshops, IT Lab and the Library shall maintain /restored.

Lot No : 1							
Lot Name: Sheet Metal Workshops Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Pipe bending machine - Hydraulic type - 12 to 30mm	Pipe Bending Machine : - Type : Hydraulic - Size : 12 to 30 mm - Capacity: 14 to 24 gauge aluminium, copper and steel pipes with formers of 5/8", 3/4" and 1" or any three formers up to 1".	No.	1			

2.	Hand shearing lever type hand operated	Hand shearing machine Lever type : - Operation Mode : Manual - Minimum Capacity: to cut 6mm sheets & Flats - Blade Size : Minimum 300mm	No.	1			
3.	Rivet sets Snap and Dolly combined	Rivet sets Snap and Dolly combined: - Size : 3mm, 4mm, 6mm	No.	1			
4.	Trammel	Trammel : Range 30cm Material - Stainless Steel	No.	1			
5.	French curves - set of 12	French curves - set of 12 - Material: Transparent Plastic - Set of 12 - Conforming to ISI or equivalent standard	No.	1			
6.	Mallet – Dia. 100 mm x 150 mm.	Mallet. size: Dia. 100 mm x 150 mm. Material: Mallet head: timber given in Appendix A of IS: 2922 or equivalent. Mallet handle: in accordance with IS: 620- 1975 or equivalent. Shape: as mentioned in IS 2922 or equivalent Standard. Conforming to IS 2922 or equivalent Standard.	No.	6			
7.	Hammer Nylon faced	Hammer Nylon faced - Nominal size : ϕ 50 mm , Standard - Nominal length = 355 mm - Material : Nylon inserts shall be made from nylon resins - Holder shall be made from any suitable materials like MS or cast iron. - Handles: wood , Tubular steel or fibre - reinforced plastics. - replaceable nylon inserts. - Conforming to IS: 10838 Standard or equivalent.	No.	12			
8.	Scissor - 150 mm	Scissor Blade made of good quality stainless steel and handle of brass provides perfect grip size: 150 mm Right hand type Conforming to ISI or equivalent standard..	No.	4			
9.	Hollow punch set	Hollow punch set Type: Hollow Straight Shank punches set size: 6-15 mm dia. Set of 7 pcs. Material: Carbon steel Chrome plated Knurled shank Conforming to ISI or equivalent standard..	No.	12			
10	Parallel bar set	Parallel bar set - set of Solid parallels in pairs , of Different sizes in Metric - Each parallel is 1/8" thick x 6" long with 2 holes - set includes 10 pairs of the following heights: 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2" & 1-5/8" - Made from high quality tool steel - accuracy within +/-	No.	1			

		.0002" - Conforming to IS :4241 or equivalent.					
11	Hand Shear Universal - 250 mm	Hand Shear Universal - 250 mm - Type: Universal - Suitable for cutting narrow gauge ferrous and non -ferrous metal sheet. - Overall Length: 250mm - Capacity: 0.8mm - One - piece, drop -forged blades with spring loaded handles. - Conforming to ISI or equivalent standard..	No.	1			
12	Straight Edge - 4 feet	Straight Edge - Suitable to check flatness and straightness of the job. - Material: Steel - size: 4 feet - Grade: workshop grade 1 or 2 - Heat treated and stabilized. - hardness: not less than 500HV - All Edges are Grounded with Straight Edge Precision Tolerance - Conforming to IS: 2220 or equivalent Standard.	No.	1			
13	Stake grooving - 100 x 100 x 300	Stake grooving - Suitable for use in forming beads and edges. - Size: 100 X 100 X 300 mm - Material : forged steel - Conforming to ISI or equivalent standard..	No.	2			
14	Snip Aviation - 300 mm	Snip Aviation Type: Aviation snips straight cut type Size : 300 mm Material : Chrome Vanadium Steel With sharp cutting edges Conforming to ISI or equivalent standard.	No.	2			
15	Snip bent - 250 mm	Snip bent - Heavy duty bent type snip - Size: 250 mm - Drop forged from high quality carbon steel - heat treated to give tough body - cutting edges are induction hardened - cutting edges are sharp and precision machined to appropriate angle to cut sheets with ease - Provided with fixed stopper, which protects fingers from getting injured due to excessive closing on shanks - Conforming to Standard IS: 6087 or equivalent.	No.	2			
16	Snip Straight - 250 mm	Snip Straight - Heavy duty Straight type snip - Size: 250 mm - Drop forged from high quality carbon steel - heat treated to give tough body - cutting edges are induction hardened - cutting edges are sharp and precision machined to appropriate angle to cut sheets with ease - Provided with fixed stopper, which protects fingers from getting injured due to excessive closing on shanks - Conforming to Standard	No.	2			

		IS: 6087 or equivalent.					
17	Templates – Circle, Ellipse, furniture, etc.	Templates – Circle, Ellipse, furniture, etc. - Made out of durable, translucent green, flexible plastic. - Complete openings for furniture and appliance arrangements in 1/4" to 1' scale. - Expedites planning for kitchens, dining rooms, family and living rooms, libraries and bedrooms. - One side calibrated in 1/4" scale. - Standard Sizes - Conforming to ISI or equivalent standard.	No.	1			
18	Treadle Guillotine shearing machine:	Treadle Guillotine shearing machine: Max.width of cut=3.5ft,max.cutting cap 22 gauge	No.	01			
19	Punching machine hand operated. Punching machine with handle	Punching machine hand operated. Punching machine with handle with max round dia. up to thickness of plate 1.5mm	No.	01			
20	Hand punching machine capacity 26SWG dia 3mm	Hand punching machine capacity 26SWG dia. 3mm	No.	01			
21	Bending machine :Length capacity 3.5',16 SWG with accessories	Bending machine :Length capacity 3.5',16 SWG with accessories	No.	01			
22	Notching machine :Heavy work/duty	Notching machine :Heavy work/duty	No.	01			
23	Portable furnace with blower	Portable furnace with blower attachment : standard height of brazing and soldering with brazing clamp.	No.	01			
24	Drawing machine	Drawing machine /screw press : punch and die set for shallow and deep drawing	No.	01			
25	Railway line	Railway line : 2100mm length	No.	02			
26	Universal working plate 4'x6'x1.5"(solid M.S.)	Universal working plate 4'x6'x1.5"(solid M.S.)	No.	02			
27	Bench plate /universal stake holder : 24"x36"x3"	Bench plate /universal stake holder : 24"x36"x3"	No.	02			

28	Stakes	Set of Stakes :creasing stakes ,funnel stakes, anvil stakes ,bottom stake, Tinman's mandrill ,half-moon stakes, hatchet stakes, a bench horse, round bottom ,grooving stake etc.	set	02			
29	Folding and grooving bar	Folding and grooving bar:2100x150x150mm	No.	01			
30	Special steel metal hammer: plansing hammer: riveting hammer	Set of Special steel metal hammer: plansing hammer: riveting hammer square face hammer ,forming hammer ,raising hammer, chasing hammer, creasing hammer, hollowing hammer ,blocking hammer, stretching and smoothing hammer . (500gms each)	set	10			
31	Mallet: plane , parallel head ,round head, flat head, hemispherical	Set of Mallet: plane , parallel head ,round head, flat head, hemispherical pear shaped matted soft melting :soft material	set	01			
32	Bar folder :length capacity 3ft and thickness 16SWG	Bar folder :length capacity 3ft and thickness 16SWG	No.	01			
33	Pneumatic pop riveting machine	Pneumatic pop riveting machine	No.	02			
34	Digital screw gauge(0-25mm)	Digital screw gauge(0-25mm) L.C. 0.01mm	No.	01			
35	SPINNING LATHE MACHINE	Extra Heavy Duty Bed, Length= 1368mm, Width of Bed= 289mm, Height Of The Centre= 278mm, Diameter Of The Spindle= 63mm Length of Spindle= 508mm , 2"4 Thread Per inch= 2"51mm Approximate Weight= 550kg Motor: 2 H.P. 3 phase With all type of accessories, attachments, spares and tools.	No.	1			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 2							
Lot Name: Electronics Workshops Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Thimbles of different sizes	Thimbles of different sizes Packets: - Material: Copper - Size (mm ²) : 0.5 – 0.75, 1.0 – 1.5 , 2.5, 4,6	Pack	10			
2.	Knife Double Bladed Electrician - 100 mm	Knife Double Bladed Electrician Type: Knife Double Bladed Size : 100 mm Material: stainless steel Double Bladed locking electricians knife with hardwood handle Pocket knife type Conforming to ISI or equivalent standard..	No.	10			
3.	Electrician Knife - 100 mm	Electrician Knife - 100 mm Size :100mm Material: stainless steel, Large curved hawk bill blade with shackle at end. Handle : hardwood Conforming to ISI or equivalent standard	No.	10			
4.	Electrician screw driver - 4mm X 100 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 100 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or equivalent Standard	No.	10			
5.	Electrician screw driver - 4mm X 250 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 250 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or equivalent Standard.	No.	10			
6.	IC Puller	IC Puller - For 8-40 pins dip and microchips. – Electrostatic discharge insulated plier grip handle for static charge damage protection. - Conforming to ISI or equivalent standard..	No.	6			

7.	Philips screw driver set	Philips screw driver set Philips screw driver complete set Material: high Grade steel Handle : Transparent green cellulose acetate Insulated stem Conforming to ISI or equivalent standard.	set	1			
8.	De soldering Gun	De soldering Gun - Heat proof nozzle, PVC type, 250mm . - Power rating = 80W - Temperature Setting Range=250-450°C - power cord length= 1.5 meter - Operating Voltage:220–240V - Conforming to ISI or equivalent standard..	No.	12			
9.	Crimping Tool (7 in 1)	Crimping tool (7 in 1) - Suitable for Crimping, cutting and stripping BNC, RJ-45 Cat5, Cat 5e & Cat6 Connectors. - Operation Type :Manual - Material : Steel and plastic handle - Die less Operation - Crimping range from 1.5 mm ² to 16mm ² - Conforming to ISI or equivalent standard	No.	6			
10	Thin Connector Screw Driver - Insulated handle	Thin Connector Screw Driver - Insulated handle Type: Insulated handle thin connector screw driver Material: Steel or alloy steel. Handle: Insulated Plastic or Fibre or Cellulose Acetate (CA) material Blades of screwdrivers shall be plated with nickel, chromium or zinc; or by any other suitable process. Standard IS: 844 or equivalent Standard.	No.	6			
11	Digital Tachometer	Digital Tachometer - Suitable for measurements of RPM's of motors, mixers, pumps, fans etc. and surface speeds of conveyor belts etc. - Type: Contact type Digital Tachometer, Hand Held - Measuring Range: up to 99999 RPM - Resolution: 0.1 RPM < 999.9 RPM; 1 RPM > 1000 RPM - Display: Preferably LCD or LED Display - - Auto power off facility - Conforming to ISI or equivalent standard	No.	1			
12	Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod	Screwdriver Set - Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod - Material: Carbon Steel. - Handle: Insulated Plastic or Fibre or Cellulose Acetate (CA) material - Conforming to ISI or equivalent.	set	2			
13	CRO Dual beam	CRO Dual trace/ Double beam - DC: 60 Mhz Bandwidth - 1Mv/Div Sensitivity on both channels - X-Y operation	No.	2			

		<ul style="list-style-type: none"> - 40Ns/Div to 0.2 sec per division Time Base - Z modulation - Minimum 8X10 cm LCD Display - Tv Triggering frame (v) & Line (H) - Line trigger - Component Tester Power Supply: AC 220 V \pm 10%, 50 Hz					
14	Digital Multimeter	Digital Multimeter 3.5digits. <ul style="list-style-type: none"> - AC: 750 volt - Dc: - 1000 volt - Current: - 10 Ampere - Resistance Measurement, Capacitor Measurement - Diode Testing - Transistor testing - Continue Testor 	No.	6			
15	Analogue multimeter	Analogue multimeter T-3 Type <ul style="list-style-type: none"> - AC: 750 volt - Dc: - 1000 volt - Current: - 10 Ampere - Resistance Measurement, Capacitor Measurement - Diode Testing - Transistor testing - Continue Testor 	No.	2			
16	Soldering and desoldering station	Soldering and desoldering station 100 watt	No.	01			
17	Soldering station 45watt.	Soldering station 100 watt.	No.	01			

18	Audio Oscillator Dig.	Audio Oscillator Dig.(10Hz to 100KHz Sine -square wave)	No.	01			
19	Function Generator Dig.	Function Generator Dig.(0.3Hz to 3MHz sine, square ,Triangle)	No.	01			
20	LCR Meter Dig.	LCR Meter Dig.(0.1micro Hz 99990.1H .001ohm to 100meg ohm)	No.	01			
21	Power Supply Digital	Power Supply Dig. (0 to 30volt DC & 3Amp.)	No.	1			
22	Soldering iron 10Watt,25watt,35watt	Set of Soldering iron 10 Watt,25 watt,35 watt	set	06			
23	Soldering Stand base iron, ceramics	Soldering Stand base iron, ceramics	No.	12			
24	Tweezers steel 150mm	Tweezers steel 150mm	No.	12			
25	CTV-DTH 575mm (23") LCD/LED	CTV-DTH 575mm (23") LCD/LED	No.	1			
26	PCB drilling machine	PCB drilling machine 0.5 - 5mm portable	No.	2			

27	PCB etching tank	PCB etching tank 10ltr.capacity (Ferric chloride)	No.	1			
28	Reading lamp Illumination magnifying glass	Reading lamp Illumination magnifying glass 10 to 20 times	No.	2			
29	Display Board	Display Board Different types of wires cable including optical	No.	2			
30	Display Board Different types of Resistant	Display Board Different types of Resistant	No.	2			
31	Display Board Different types of Capacitor	Display Board Different types of Capacitor	No.	2			
32	Display Board Different types of Transistor	Display Board Different types of Transistor	No.	2			
33	Display Board Different types of Diode, SCR, Triac	Display Board Different types of Diode, SCR, Triac	No.	2			
34	Display Board Different types of IC's analogue digital SMD Comp.	Display Board Different types of IC's analogue digital SMD Comp.	No.	2			
35	Display Board Different types of Connector jacks	Display Board Different types of Connector jacks	No.	2			

36	Display Board Different types of Switches ,rotary and slide	Display Board Different types of Switches ,rotary and slide	No.	2			
37	Display Board Different types of Micro switches	Display Board Different types of Micro switches.	No.	2			
38	Display Board Different types of MCB fuse read relay, different type	Display Board Different types of MCB fuse read relay, different type	No.	2			
39	Display Board Different types of PCB general purpose Single, double, multi	Display Board Different types of PCB general purpose Single, double, multi	No.	2			
40	Display Chart half wave full wave bridge rectifier CKT	Display Chart half wave full wave bridge rectifier CKT	No.	2			
41	Display Chart common emitter base collector transistor circuit	Display Chart common emitter base collector transistor circuit	No.	2			
42	Display Chart SCR triac using diac circuit	Display Chart SCR triac using diac circuit	No.	2			
43	Ball pein hammer cap. 0.25kg	Ball pein hammer cap. 0.25kg	No.	5			
44	Tubing cutter	Tubing cutter	No.	2			

45	Earth tester Digital	Earth tester Digital	No.	2			
46	Allen Key Set	Allen Key Set dia. 1.5mm to 10mm	set	2			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 3							
Lot Name: Electrical Workshops Hand Tools & Equipment							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Thimbles of different sizes	Thimbles of different sizes Packet: - Material: Copper - Size (mm ²) : 0.5 – 0.75, 1.0 – 1.5 , 2.5, 4,6	Pack	10			
2.	Knife Double Bladed Electrician - 100 mm	Knife Double Bladed Electrician Type: Knife Double Bladed Size : 100 mm Material: stainless steel Double Bladed locking electricians knife with hardwood handle Pocket knife type Conforming to ISI or equivalent standard..	No.	10			
3.	Electrician Knife - 100 mm	Electrician Knife - 100 mm Size :100mm Material : stainless steel, Large curved hawk bill blade with shackle at end. Handle : hardwood Conforming to ISI or equivalent standard	No.	10			
4.	Electrician screw driver - 4mm X 100 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 100 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or equivalent Standard	No.	10			
5.	Electrician screw driver - 4mm X 250 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 250 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or equivalent Standard.	No.	10			
6.	Philips screw driver set	Philips screw driver set Philips screw driver complete set Material: high Grade steel Handle : Transparent green cellulose acetate Insulated stem Conforming to ISI or equivalent standard.	Set	1			
7.	De soldering Gun	De soldering Gun - Heat proof nozzle, PVC type, 250mm . - Power rating = 80W - Temperature Setting Range=250-	No.	12			

		450°C - power cord length= 1.5 meter - Operating Voltage:220–240V - Conforming to ISI or equivalent standard..					
8.	Crimping Tool (7 in 1)	Crimping tool (7 in 1) - Suitable For Crimping, cutting and stripping BNC ,RJ-45 Cat5, Cat 5e & Cat6 Connectors. - Operation Type :Manual - Material : Steel and plastic handle - Die less Operation - Crimping range from 1.5 mm ² to 16mm ² - Conforming to ISI or equivalent standard	No.	6			
9.	Thin Connector Screw Driver - Insulated handle	Thin Connector Screw Driver - Insulated handle Type: Insulated handle thin connector screw driver Material: Steel or alloy steel. Handle: Insulated Plastic or fibre or Cellulose Acetate (CA) material Blades of screwdrivers shall be plated with nickel, chromium or zinc; or by any other suitable process. Standard IS: 844 or equivalent Standard.	No.	6			
10	Hand blower portable complete with accessories	Hand blower portable complete with accessories - Type: portable - Power -1/10 HP (electrical type) - Material: Cast Aluminium. - power source: Electric - Generally Conforming to ISI or equivalent standard..	No.	2			
11	Digital Tachometer	Digital Tachometer - Suitable for measurements of RPM's of motors, mixers, pumps, fans etc. and surface speeds of conveyor belts etc. - Type: Contact type Digital Tachometer, Hand Held - Measuring Range: up to 99999 RPM - Resolution: 0.1 RPM < 999.9 RPM; 1 RPM > 1000 RPM - Display: Preferably LCD or LED Display - - Auto power off facility - Conforming to ISI or equivalent standard	No.	1			
12	Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod	Screwdriver Set - Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod - Material: Carbon Steel. - Handle: Insulated Plastic or fibre or Cellulose Acetate (CA) material - Conforming to ISI or equivalent.	set.	2			
13	Soldering iron	Set of Soldering iron copper bit 25,35,40,65,125 watt(one each)	set.	3			

14	Tenon saw steel	Set of Tenon saw steel 30cm,45cm	Set	10			
15	cold chisels steel	Set of cold chisels steel 15cm,20cm	Set	10			
16	Firmer chisels	Set of Firmer chisels 1.25cm,1.9cm,2.54cm	Set	05			
17	Brace handle Ratchet	Brace handle Ratchet hand drilling machine 12mm	No.	02			
18	Hand plug tools steel	Set of Hand plug tools steel 8.9 and 10 Nos	set	1			
19	Hand vice	Set of Hand vice 25,50,100,150mm	Set	3			
20	Hydrometer	Hydrometer	No.	05			
21	Battery charger	Battery charger 6,12,24,48 volts	No.	02			
22	High rate discharge battery cell tester	High rate discharge battery cell tester	No.	02			
23	Electrical iron (ordinary)	Set of Electrical iron (ordinary)750&100 watts	Set	02			
24	Automatic iron heavy weight	Automatic iron heavy weight 750 watts	No.	04			
25	Automatic iron light weight	Automatic iron light weight -1000 watt	No.	04			
26	Electrical kettle	Electrical kettle 1&2 litres	No.	2			
27	Ceiling fan	Ceiling fan	No.	02			
28	Table fan	Table fan	No.	02			
29	Mixture electrical grinder	Mixture electrical grinder	No.	02			
30	Geysers Electric	Set of Geyser Electric 2.5,10,20 litres	Set	01			
31	Energy meter Induction type	Energy meter Induction type 5-10-20-25 Amp,240V,50Hz	No.	05			
32	Electronic energy meter 5-30 Amp,240V	Electronic energy meter 5-30 Amp,240V	No.	05			
33	Electric Heater 1000,2000 watt	Electric Heater 1000,2000 watt	No.	05			

34	Heat convector	Heat convector 2000 watt	No.	05			
35	DOL starter	DOL starter for three phase motor 1.5 H.P.to 2H.P.	No.	05			
36	Star delta starter	Star delta starter	No.	02			
37	3 phase motor 2h.p	3 phase motor 2h.p.having six terminals	No.	02			
38	Electric Oven	Electric Oven 30-250 Degree temperature	No.	01			
39	Multi meter analog type	Multi meter analog type	No.	05			
40	Megger digital type 500 to 1000V DC	Megger digital type 500 to 1000V DC	No.	02			
41	A.C. clip on meter	A.C. clip on meter (tong tester)	No.	1			
42	Immersion rod	Set of Immersion rod 1000 ,1500,2000watt	Set	02			
43	Ampere meter	Ampere meter 0-40 Amp	No.	05			
44	Volt meter 0-500volts	Volt meter 0-500volts	No.	05			
45	Latest complete hand tool kit (for general workshop)	Latest complete hand tool kit (for general workshop)	No.	01			
46	Earth tester digital and analog	Set of Earth tester (digital and analog)	Set	02			
47	Insulation tester digital and analog	Set of Insulation tester (digital and analog)	Set	02			
48	Contraction control circuit trainer model IACS-ECCP	Contraction control circuit trainer model IACS-ECCP	No.	02			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 4							
Lot Name: Carpentry Workshops Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Handsaw - 450mm	Handsaw Length 450 mm Thickness: 0.80 mm width at one end 125 mm & 45 mm on the other Shape: Trapezium Seven teeth per inch Hardened cutting edges. Straight Cutting edge Material: Blade made of hardened & tempered spring steel strips Handle : wooden/ plastic Conforming to ISI or equivalent standard..	No.	12			
2.	Oil stone 150X50X25mm	Oil stone - Oil Stone Size: 15x5x2.5 cm - Grit type: fine, coarse - Grit material:150 Grit and Fine side 400 - Combination oilstone has 100 grit on one face for repairing steel cutting edges and 320 grit on the opposite face for sharpening and maintaining them. -Material: aluminium Oxide / Silicon carbide - Prefilled with oil to allow lubricant to stay on surface during sharpening - suitable for use as a bench sharpener for knives and tools -Conforming to ISI certified or Equivalent Standard	No.	5			
3.	Pincer - 150 mm	Pincer size: 150 mm Material: Drop forged from carbon steel. Standard Conforming to IS or equivalent	No.	6			
4.	Blow Lamp - 0.5 Litre	Blow Lamp - capacity : 0.5 litre - Material : brass - Conforming to IS-1899 or Equivalent Standard.	No.	5			
5.	Tenon saw - 250 mm	Tenon saw - 250 mm - saw shall have a fairly short, stiff blade with a wooden or steel spine running along its back. - Length=250 mm - Steel blade hardened, tempered, straightened and stress relieved to ensure straightness. - 10-14 TPI design to allow fast cutting with sawdust removal in both forward and reverse action. - Shock absorbing ergonomic soft grip handle - suitable anti-	No.	12			

		corrosive surface treatment shall be given to Tenon's. - Conforming to ISI or equivalent standard.					
6.	Rule Wooden - 4 fold, 600 mm	Rule Wooden - 4-fold Type: Foldable rule wooden No. of fold: 4 length: 600 mm material: Well-seasoned hardwood with brass joints Large digits for better readability, even under poor visibility conditions. Black measuring scale with clear printed impression. Red tens for quick orientation. Inch, cm, mm scale on both sides of both rule edges. Conforming to ISI or equivalent standard..	No.	6			
7.	universal wood working machine planing	universal wood working machine planing bed 12" circular saw blade ,drilling attachment with all accessories. Thickness: 260-310mm Moulding capacity: 20-60mm Slotting table size: - 180X400 mm Table Size: - 660 X 585mm Motor power: - 3HP 1440 rpm	No.	1			
8.	Electric Sanding machine .	Electric Sanding machine . Sanding plate: - 182mm Sanding sheet for clamping: - 230mm Sanding sheet with velcrow type fastning : - 185mm No load speed: - 0-12000 rpm Power consumption: - 190 watt Oscillating circuit diameter : - 2mm	No.	01			
9.	Electrical hand planer	Electrical hand planer Weight: - 2.8 to 3 KG Wattage:- 650 watt Speed: - 16000-17000 rpm	No.	01			
10.	Electric jigsaw	Electric jigsaw Weight: - 2 kg Power: - 450 watt No load speed: - 800 -3100 rpm	No.	01			
11.	Electrical router	Electrical router Wight:- 3.5 kg	No.	01			

		Wattage: - 1400 watt Speed: - 11000 – 28000 rpm					
12.	Iron Jack Plane	Iron Jack Plane 350mm	No.	15			
13.	Iron Jack Plane	Iron Jack Plane 225mm	No.	08			
14.	Hand saw	Handsaw 450mm	No.	10			
15.	Hand saw	Handsaw 400mm	No.	10			
16.	Bow saw	Bow saw 300mm	No.	10			
17.	Claw hammer	Claw hammer	No.	10			
18.	Marking gauge Al	Marking gauge Al	No.	10			
19.	Mortise gauge Al	Mortise gauge Al	No.	10			
20.	Ratchet brace 10mm	Ratchet brace 10mm	No.	04			
21.	Saw set plier	Saw set plier	No.	02			
22.	Speed Lathe (Wood working) Length of bed 2400mm Taper MT-3	Speed Lathe (Wood working) Length of bed 2400mm, Motor 2 H.P. Taper MT-3. Motor with all types of accessories ,attachments, cutting tools and spares.	No.	2			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 5							
Lot Name: Smithy Workshops Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Trowel C-125	Trowel C-125 - Narrow, c- type trowel - size: 125 mm - Material: Forged from a single piece of high grade tool steel - Trowel blades are precisely taper ground to perfect balance and flexibility. - The ergonomic designed handle (wooden/ plastic) ensure a firm comfortable and durable grip. - Conforming to Standard IS: 6013 or equivalent.	No.	2			
2.	Flat Tongs - 350 mm long	Flat Tongs - Size: 350mm long - Made from low carbon steel - Flat Jaw , medium close mouth - rivets shall be of pan head type and shall be neatly snapped. - shall be properly aligned and shall not have any undue play or stiffness. -Conforming to IS:843 Standard or its equivalent.	No.	12			
3.	Hammer Double faced - 2.5 Kg	Hammer Double faced - Type: Double face sledge hammer 2.5 Kg. - The hammer heads shall be manufactured from fully killed forging quality steel , - Hardened and tempered up to 46 - 58 HRC on Striking faces and peins. - Drop forged from high grade carbon steel. Phosphated and painted to provide anti rusting properties. - Handle made from high quality axle wood and fixed firmly to hammer head. - The hammer heads shall be varnished all over or coated with an approved anti-corrosive paint, except the ground portion, which	No.	6			
4.	Swaging tool, punch type, set - 4.7 to 16 mm	Swaging tool, punch type, set - suitable for tube 4.7mm to 16mm O.D - set contents swaging tool: 3/16", 1/4", 5/16",	set	2			

	OD	3/8", 1/2" and 5/8" O.D. tubing - made from alloy steel - Heat treated - Hex design - Machined surface. - chrome plated - Conforming to ISI or equivalent standard.					
5.	Hammer Sledge - double faced - 6 kg	Hammer Sledge - double faced - Drop forged from high grade carbon steel. - Double faced - weight : 6 Kg - Hardened and tempered up to 46 - 58 HRC on Striking faces and peins. - Phosphated and painted to provide anti rusting properties. - Handle of Standard size, made from high quality axle wood and fixed firmly to hammer head. - The hammer heads shall be varnished all over or coated with an approved anti-corrosive paint - Ground portion varnished. - Conforming to IS:841 or equivalent Standard.	No.	3			
6.	Tong set	Tong set - Suitable to hold the jobs in position and turning over during forging operation - made from mild steel. - set includes -Close mouth and pick up type tong - lengths of the tongs in hand forging - from 400 mm to 600 mm with the jaws' opening ranging from 6mm to 55 mm approx., - rivets shall be of pan head type and neatly snapped. - balls at the end of the reins for maximum control. - Conforming to ISI or equivalent standard.	Set	2			
7.	Black smith forge (Open Hearth Furnace)	Black smith forge with blower motor: org size : 4'x2'x2.6" with following parts :Legs plates form ,body, Nozzle, water tank ,black plate , Valve, Coal tank ,Hood, Chimney etc. Blower with motor :Blower size dia. 2', motor 2 H.p.,2860r.p.m.440 Volts, 3 Phase	No.	02			
8.	Power hammer	Power hammer with motor :Rams weighing =50kg motor=2H.P.,3 Phase ,1440r.p.m. 440 volts	No.	01			
9.	Finishing tools	Finishing tools :swage set of top and bottom	Set	02			
10	Finishing tools	dif. Types sectional shape round square or hexagonal	No.	10			
11	Fuller set top/bottom diff. variety of shapes	Fuller set top/bottom diff. variety of shapes	No.	15			
12	Flatter : Flat surface	Flatter : Flat surface	No.	15			

13	Muffle furnace :	Muffle furnace :Rectangular muff furnace size 12"x6"x6",voltage 220 to 240V current a .c., cycles =50Hz	No.	1			
14	Chop Saw/ Pipe Cutting M/c	chop Saw/ Pipe Cutting M/c	No.	01			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 6							
Lot Name: Welding Workshops Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Transformer welding set - continuous welding current, with all accessories and electrode holder with Standard Accessories	Welding Transformer with all accessories - Three Phase ,415V - Open circuit voltage range : 60-100 V - Welding Current Range 80– 500 A - Current @ 60% duty cycle: 400 A - Display of Current & Voltage Digital - Electrode holder	No.	2			
2.	Welder cable	Welder cable : - Size: 50 sq. mm - Material: copper with Tough Rubber - Length : 50 meter - Max Current carrying capacity: Not less than 400 Amps	mtr	50			
3.	Earth clamps	Heavy duty earth clamp for welding : - Jaw opening up to 60 mm. - Zinc coated steel with copper plated jaws and copper mesh.	No.	01			
4.	Oxy - acetylene gas welding set equipment with hoses, Oxygen & Acetylene cylinders, regulator and other accessories.	Oxy - acetylene gas welding set equipment consisting of : - Oxygen cylinder of standard industrial Capacity - Acetylene cylinder of standard Industrial Capacity - Double stage oxygen regulator - Double stage acetylene regulator - Oxygen & Acetylene Flashback arrestor for Cylinder and Torch - Twin hoses (Acetylene & Oxygen) 10m Each - Welding torch with Nozzles - Twin Cylinders Trolley	No.	1			
5.	Gas welding table with positioner with Fire Bricks 900 X 600 X 750 mm	Gas welding table with positioner with Fire Bricks - Size : 900 X 600 X 750 mm made with 40 x 40 x 4 mm angle iron and top tray covered with 5mm MS sheet, with positioner suitable for all weld positions. - Top tray covered with refractory bricks - Refer Specification as per Drawing No DWG-MM-01 Attached - Gas Welding Table Spray Painted	No.	1			
6.	Welding torch tips of	Welding torch tips: - Welding torch tips of different sizes	No.	3			

	different sizes for Oxy-acetylene gas welding	for Oxy- acetylene gas welding To fit nozzle no. 1, 2, & 3					
7.	Spark lighter for Gas Welding	Spark Lighter for Gas Welding - Spark Lighter used for Gas Welding & Cutting - Made of Stainless steel	No.	2			
8.	Welding torches.	Welding Torch for Oxy-Acetylene with Nozzles no. 1, 2, & 3 - Material of Torch : Brass	No.	2			
9.	Flash back arrester (torch mounted)	Pair of Flash back arrester (Torch mounted) for Oxygen and Acetylene : - Material: Brass	No.	2			
10	Flash back arrester (cylinder mounted)	Pair of Flash back arrester (cylinder mounted) for Oxygen and Acetylene Cylinder : - Working Pressure : 15 bar(Oxygen) & 1.5 bar(Acetylene) - Material: Brass	No.	2			
11	D.C Arc welding rectifiers set with all accessories	D.C Arc welding rectifiers set with all accessories - Open circuit voltage range : 60-100 V - Welding Current Range 50– 400 A - Current @ 60% duty cycle: 400 A - Display of Current & Voltage : Digital	No.	1			
12	Spot welding machine	Spot welding machine: - Rocker Arm Diameter : 38 - 60 mm - Foot Operated - Throat Clearance : 160-300mm - Types of Transformer Cooling : Air / Water - Output: 15 KVA - Spot Size : up to 6 mm - Rocker Arm Diameter : 30-55 mm - Electrode Holder Diameter : 18-25 MM - Length of Upper Electrode Holder : Minimum 200 MM - Length of Lower Electrode : Minimum 200 MM - Arms & Electrode Cooling : Water	No.	1			
13	Oxygen, Acetylene Cylinders (Filled)	Oxygen Cylinder (Filled): - Capacity : 6-8.5 Cub. m - Type : Seamless - Pneumatic Leakage Test Pressure : Min. 120 Kg/Cm2 - Max Working Pressure @ 150deg C : Min. 16 Kg/Cm2 - Colour : Black Acetylene Cylinder(Filled) : - Capacity : 6-8.5 Cub. m - Type : Seamless - Pneumatic Leakage Test Pressure : Min. 120 Kg/Cm2 - Max Working Pressure @ 150deg C : Min. 16 Kg/Cm2 - Colour : Maroon	No.	4			
14	Welding helmets with coloured glass	Welding Helmet : - Black Glasses, - both side plane glass with side shield	No.	6			
15	Hammer- Chipping - 0.25 Kg	Hammer- Chipping - Helical Barrel spring handle - weight : 250gms - Material : drop forged steel, - Conforming to IS	No.	12			

		:4915 or its equivalent Standard.					
16	Arc welding glass -plain	Arc welding glass - Plain Glass - Suitable for welding. - Size: 108 mm x 82 mm x 3 mm. - Material : Made from clear glass. - Color : Plain - Conforming to ISI or equivalent standard.	No.	20			
17	Arc welding glasses - single coloured	Arc welding glasses - single coloured glass - Colour: Black - Size: 108 mm x 82 mm x 3 mm minimum - DIN 11A &12 A - Conforming to ISI or equivalent standard.	No.	10			
18	Spark lighter	Spark lighter - material: SS body - Conforming to ISI or equivalent standard.	No.	3			
19	Welding Goggles	Welding Goggles with Colour Glass - Material : Plastic moulded frame and black lens. - Type: Mesh cup - with black Colour glass 3 or 4A DIN - Size : Standard - Conforming to ISI or equivalent standard	No.	10			
20	Gas welding Goggles (pair) - 100 mm	Gas welding Goggles (pair) - Material : Plastic moulded frame and black lens. - Type: Mesh cup - with black Colour glass 3 or 4A DIN - Size : 100 mm - Conforming to ISI or equivalent standard	Set	5			
21	Welding brush	Welding brush - suitable to clean welding spots. - 5 rows and 3 rows - Bristle Material : SS -Brush Size (in inch) = 11 - 15 -Bristle Length (in inch)= 3 - Bristle Stiffness = Hard - Conforming to ISI or equivalent Standard	No.	5			
22	Earth clamp 600A	Earth clamp - made of zinc coated steel with copper plated jaws and suitable copper mesh - Type: Crocodile Earth Clamp/ Ground Clamp - Jaw opening is up to 60mm - Amperage :600 A - Cable Size : 90-70 mm Sq. - Conforming to ISI or equivalent standard	No.	20			
23	Electrode holder- 600 A	Electrode holder- 600 A - Material : Brass or copper/ alloy - Amperage: 600A - Type: Insulated handle - Heat resistant proof - Conforming to ISI or equivalent standard.	No.	10			
24	Oxygen Gas Pressure Regulator	Oxygen Gas Pressure Regulator - Double stage Industrial Gas Regulators with Stainless steel diaphragm in first stage and Flexible rubber diaphragm in second stage for	No.	2			

		fine gas control. - Forged brass bonnet in first stage and die cast special alloy bonnet in second stage - Teflon moulded valve and stainless steel spindle in the valve assembly capsule in both stages for leak-proof performance. - Second stage plenum chamber volume is six times than first stage - Double protection through separate safety relief valves in both first and second stage, - Triple filter: one in inlet and two wire mesh in the valve assembly - Conforming to IS: 6901 or equivalent Standard.					
25	Acetylene Gas Pressure regulator	Acetylene Gas Pressure regulator: - double stage type - Stainless steel diaphragm in first stage and flexible rubber diaphragm in second stage. - Forged brass bonnet in first stage and die cast special alloy bonnet in second - Plastic moulded valve and stainless steel spindle in the valve assembly - Safety valves in first and second stage. - Triple filter: one in inlet and two wire mesh in the valve assembly - Conforming to ISI or equivalent standard	No.	2			
26	Welding hose - acetylene	Welding hose - acetylene - made from Thermoplastic Rubber - Diameter= 8mm - Length = 10 meter - colour = Red / maroon - Lining: Natural and Synthetic Rubber Blend. - Reinforcement: High Tenacity Synthetic yarn Braid - Cover: Natural and Synthetic Rubber Compound with Heat Weather, Abrasion and Ageing Properties. - Seamless tube of blend of natural synthetic rubber compound resistant to fuel acetylene - Plain or fluted cover of rubber for lasting performance under severe working conditions Conforming to IS: 447 or equivalent Standard.	No.	2			
27	Welding hose - oxygen	Welding hose - oxygen - made from Thermoplastic Rubber - Diameter= 8mm - Length = 10 meter - colour = Blue - Lining: Natural and Synthetic Rubber Blend. - Reinforcement: High Tenacity Synthetic yarn Braid - Cover: Natural and Synthetic Rubber Compound with Heat Weather, Abrasion and Ageing Properties. - Seamless tube resistant to fuel oxygen - Plain or fluted cover of rubber for lasting performance under severe working conditions -	No.	2			

		Conforming to IS: 447 or equivalent Standard.					
28	Arc welding cables	Arc welding cables -Type: multi cored copper - Amperage = up to 600 A - Number of Core = multiple - Insulation Material = PVC - Length =45 meter - Conduction Material = Copper - Conforming to ISI or equivalent standard.	No.	1			
29	Seam welding machine	Seam welding machine KVA-10 duty cycle 50% primary volts 415 frequency 50Hz primary Amps-25,secondary Amps-900	No.	1			
30	Portable Electrical Grinder	Portable Grinder Electric 100mm	No.	1			
31	Portable welding set	Portable welding set single phase 220V, 200Amp.	No.	1			
32	chop Saw/ pipe cutting m/c.	chop Saw/ pipe cutting m/c Cap.350mm .	No.	1			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 7							
Lot Name: Fitting Workshops Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Pillar Type Electric motorized Drilling machine of 20 mm Capacity	Pillar Type Drilling machine: - Drilling Capacity: 20mm Max - Chuck Capacity: 0-20 mm - Spindle Taper: Minimum MT-3 - Spindle Traverse: Minimum 100mm - Distance between Spindle and Table: Minimum 300mm - Distance between Spindle and Base: Minimum 500 mm - Table Working Surface Area: Minimum 200 x 200 mm - Swivel Table - Number of Spindle Speeds: at least 8, - Pillar Diameter: Minimum 57mm - Spindle Speed - between 115 rpm – 2060 rpm or Higher - Coolant System with Coolant Pump with tank. - Main Motor not less than 1HP - Operating Voltage: 440V, 3 Phase. - Suitable Starter with all safety gadgets. - Suitable capacity electric cable of minimum 5 meter length for connecting with 440V, 3 phase supply	Pack	10			
2.	Motorised Bench Grinder	Motorised Bench Grinder: - Grinding Wheel Diameter: Minimum 150mm - Double sided - Two wheels' rough and smooth with Tool Base - No Load Speed: 1500-3600 rpm - Operating Voltage: 440 V, 3 phase - Motor Power: Minimum 1 HP - Suitable DOL Starter with all safety gadgets. - Suitable capacity electric cable of minimum 5 meter length for connecting with 440V, 3 phase supply	No.	10			
3.	Bench type Electric Motorized Drilling Machine of 20 mm capacity	Bench Drilling Machine : - Drilling Capacity: 20 mm - Chuck Capacity 1.5-20 mm - Minimum spindle travel :80 mm - Spindle taper: Solid - Minimum No. of spindle speed : 2 - Range of spindle speed:200-2500 rpm - Electric Motor:	No.	10			

		Minimum 0.5 H.P, 3 Phase - Suitable capacity electric cable of minimum 5 meter length for connecting with 440V, 3 phase supply					
4.	V' Block 75 x 38 mm pair with Clamps	V Block Pair with Clamps - Length : 75 MM - Width : Minimum 38 MM - Width of Vee : Minimum 25 MM - Width of U shaped Slot : Minimum 15 MM - Material : Tool Steel 50 to 60 HRC - One pair of Clamp	No.	10			
5.	Depth micrometre 0-25 mm	Depth micrometre: - Measuring range: 0 to 25mm - Resolution: 0.01 mm - Accuracy: 0.01mm - Measuring rod clamp. - Carbide-tipped measuring rod - Ratchet stop for constant force - Rugged blow moulded hard case	No.	10			
6.	Dial gauge type 1 Gr. A (complete with clamping devices and with magnetic stand)	Dial gauge with clamping devices and Magnetic Stand: - Type 1 Gr. A - Maximum Reach : 145 mm - Indicator Range : 10 mm - Resolution : 0.01 mm - Accuracy: 0.013 mm - Clamping Force (N) : Minimum 600 N	Set	1			
7.	Granite surface plate with stand and cover Size : 450 x300mm	Granite surface plate with stand and cover: Adjuster: -Size : 450 x 300 X 40 MM - GRADE : A, accuracy is 0.005mm - Six level adjustable Dust proof Cover	No.	12			
8.	Outside micrometre 0-25mm	Outside micrometre : - Range : 0 to 25 mm - L.C : 0.01 mm - Material : Stainless steel, chrome plated with carbide Tips - Suitable case for storage	No.	6			
9.	Outside micrometre 25-50 mm	Outside micrometre : - Range : 25 to 50 mm - L.C. : 0.01 mm - Material : Stainless steel, chrome plated with carbide Tips - Suitable case for storage	No.	6			
10	Pipe cutting tool	Pipe cutting tool : - Pipe or Tube Diameter Capacity : 1/8-inch to 1-1/8-inch - Contact rollers ; Minimum 3 Nos. for stable cutting & reduced spiralling	No.	2			
11	Thread pitch gauge Metric	Thread pitch gauge : - Measurement System : Metric - Range (mm) 0.4-7 mm	No.	1			
12	Filler gauge - 10 blades	Filler gauge - 10 blades Range: 0.05mm to 1.0 mm (Metric) (10 blades) Type: Leaf Design Material: stainless Steel with anti-rust coating. Conforming to ISI or equivalent Standard	Set	2			

13	Taps and wrench set - 3 mm to 16mm	Taps and wrench set - set contains Taps and wrenches - Metric - Adjustable Tap wrench suitable for specified size. - suitable for size metric: 3- 16 mm, (fine and coarse) - tap: 3pcs of each type - Conforming to ISI or equivalent standard.	Set	3			
14	Adjustable pipe die set BSP with die	Adjustable pipe die set BSP with die - Die size 1/2", 3/4", 1" - Material: Alloy steel. - Ratchet head with two piece handle - Conforming to ISI or equivalent standard	set.	10			
15	Tap and Die set - Wit Worth	Tap and Die set - Wit Worth - Tap and Die set suitable to cut BSW threads. - Material :High Speed Steel - suitable for size: : 5/16, 3/8, 5/8, 1/2, 7/16 Inch - Taps : 3pcs each type - Dies : 1 pcs each type - 1 x Tap Wrench - 1 x Die Stock Wrench - Conforming to ISI or equivalent standard.	set	10			
16	Die set	Die set - Material: High Speed Steel - suitable for size: : 5, 6, 8, 10, 12 mm Metric (fine and coarse) - Dies : 1 pcs each type - 1 x Die Stock Wrench - Precision machined taps and dies. - Conforming to ISI or equivalent standard.	set	05			
17	Universal Vernier Calliper 150 mm	Universal Vernier Calliper - Range 0- 150 mm with least count 0.02mm, Type -A - shall have engraved graduations both in mm and inches - Hardened stainless steel / alloy steel with satin chrome scale. - face angle of 14degree for easy reading - Conforming to IS: 3651 or equivalent Standard.	No.	02			
18	Combination set - 200 mm	Combination set - Blade Range: 200 mm - Graduation: 0.5 mm - Precision: 0.02 mm - Material: Stainless Steel. - Measuring heads: Square, Centre & Protractor - Conforming to ISI or equivalent standard.	Set	1			
19	Vernier Bevel protector - 150 mm	Set of Vernier Bevel protector - Range: 0-360° - Material: Hardened stainless steel - Includes Two Blades 150mm and 300mm, Least Count 5 Minutes - Conforming to Standard IS: 4239 or equivalent.	Set	3			
20	Vernier Bevel protector - 300 mm	Vernier Bevel protector - Range: 0-360° - Material: Hardened stainless steel - Includes Two Blades 150mm and 300mm, Least Count 5' Minutes, dial 10 - High angle	No.	05			

		gauge for accurate angle measurements of machines, moulds and jigs etc. - Conforming to Standard IS: 4239 or equivalent.					
21	Vernier height gauge - 300 mm	Vernier height gauge - Range: 0-300 mm - Least count: 0.02 mm - Accuracy: ± 0.04 mm - Resolution: 0.02mm / .001" - Scale Adjustment: 15 mm - Slider Fine Feed: 4mm - Stain chrome finished scales for glare-free reading. - Reading the Vernier scales can be assisted by an optional magnifier. - Carbide-tipped scriber is provided. - Conforming to IS: 2921 or equivalent Standard.	No.	02			
22	Slip Gauge Set	Slip Gauge Set - Grade: workshop grade (grade 2) - Made of high quality steel, - Slightly rounded edges. - Each gauge block is marked with an identification number. - Gauge block hardness is 800 HV (64 HRC) for high wear resistance. - Block Per Set: 87 Pcs. - Set Includes : 9 Block ; 1.005-1.009 mm in Step of 0.001 mm 49 Block ; 1.01-1.49 mm in Step of 0.01 mm 19 Block ; 0.50-9.50 mm in Step of 0.50 mm 10 Block ; 10-100 mm in Step of 10 mm - Conforming to IS:2984 or equivalent Standard.	No.	02			
23	File Flat - Safe Edge 200 mm	Set of File Flat - Safe Edge - Type : flat -safe edge - Length: 200 mm - Material: High Carbon Steel - with wooden handle - Conforming to IS:1931 or equivalent Standard	Set	02			
24	Hands File- Flat - second cut - 200 mm	Hands File- Flat - second cut - Type: Hands File- Flat - second cut - Length: 200 mm - Material: High Carbon Steel - Excellent Resistant to Corrosion - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	04			
25	Tap Extractor set - 3 mm to 12 mm x 1.5 mm	Tap Extractor set - Material : HSS - Size : 3mm to 12mm x 1.5mm(easy Out) - Conforming to ISI or equivalent standard.	No.	04			
26	Scraper flat - 150 mm	Scraper flat Type: Flat Blade length: 150 mm Material: High carbon steel Material of grip handle: wood Conforming to ISI or equivalent standard.	No.	2			
27	Scraper half round - 150	Scraper half round Type: Half round Blade length: 150 mm	No.	02			

	mm	Material: High carbon steel Material of grip handle: wood Conforming to ISI or equivalent standard.					
28	Scraper triangular - 150 mm	Scraper triangular Type: Triangular Blade length: 150 mm Material: High carbon steel Material of grip handle: wood Conforming to ISI or equivalent standard.	No.	02			
29	Telescope gauge - Set - 8 - 150 mm -6 pieces	Telescope gauge - Set - Material: Hardened tool steel - Set of 6 pcs. - Range : 8 - 150 mm - size : 8-12.7mm, 12.7-19mm, 19-32mm, 32-54mm, 54-90mm, 90-150mm - Nickel-plated finished - The ends of both contact are head treated stainless steel and precision ground to a radius - Conforming to ISI or equivalent standard.	No.	02			
30	Straight Edge - 2 feet	Set of Straight Edge – Suitable to check flatness and straightness of the job. - Material: Steel - size: 2 feet - Grade: workshop grade 1 or 2 - Heat treated and stabilized. - hardness: not less than 500HV - All Edges are Grounded with Straight Edge Precision Tolerance - Conforming to IS: 2220 or equivalent Standard	set	01			
31	Machine Reamer parallel set	Machine Reamer parallel set Type: Machine Reamer parallel - helical flute size: 12 -16 mm set of 5 (12 mm, 13 mm, 14 mm, 15 mm, 16 mm) Flute: helical Material: stainless steel. Conforming to ISI or equivalent standard..	set	01			
32	Angle plate 200x100x200 mm	Angle plate - Size : 200x100x200 mm - Material : Cast iron - Flatness and Squareness within .002" Per 6" for Machined finish and .001" per 6" for Ground finish - Conforming to IS- 2554 or equivalent Standard	No.	05			
33	Sine bar - 125 mm	Sine bar - Material: Alloy steel - Size: 125 mm - hardened, precision ground body with two precision ground cylinders fixed at the ends. - Hardness: 55-60 HRC. - Confirming to IS : 5359 or equivalent Standard.	No.	05			
34	Angle Plate adjustable type - 200x100x200 mm	Angle plate - adjustable type - Size: 200x100x200 mm - Material: Cast iron - Range 45 Degree each way from Vertical. - 3 Machined "T" slots and precise ground Table Surface. - Swivel Base - Swivel Graduation 360 Degree. - Conforming to IS- 2554 or equivalent Standard	No.	05			

35	Marking out table - 900X600X900 mm	Marking out table Size : 900X600 X 900 mm high Material : Gray Cast Iron With Stand to enable working height 900 mm Conforming to IS:7327(2003) or equivalent Standard	No.	01			
36	Lapping plate - 250x200 mm	Lapping plate Type: Lapping plate Grade 1. Size: 250mm x 200mm Material: cast iron. Top surface provided with 3x3 mm grooves at a pitch of 24- 28 mm. Conforming to ISI or equivalent standard..	No.	05			
37	Power Hacksaw M/c	Hacksaw M/c Hyd.300mm blade, Blade 500mm, Round 300mm, Square=19.5mm,45 Degree, Cut Stroke 140mm motor 2HP, oil 5ltrs, Weight4.5Qtl. With Coolant Pump.	No.	02			
38	Machine vice	Machine vice 100mm	No.	02			
39	Latest complete hand tools kit(for general workshop)	Latest complete hand tools kit(for general workshop)	No.	01			
40	Tap and Die set of left hand M6,M8,M10 and M12	Tap and Die set of left hand M6,M8,M10 and M12	No.	05			
41	Machine reamers dia 8-12mm	Machine reamers dia 8-12mm	No.	02			
42	Pulley puller jaw opening dia upto 150mm	Pulley puller jaw opening dia upto 150mm	No.	1			
43	chop Saw / Pipe cutting M/C Cap. 350mm	Set of Chop Saw and Pipe cutting M/C Cap. 350mm	set	02			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 8							
Lot Name: General Workshops Common Hand Tools & Equipment's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Anvil 50 Kgs with Stand	Anvil with Stand: - Made up of Solid cast steel hardened and tempered. - Single Horn Anvil With Curved Base Size/Working Area at least 12 Sq. Inches - Weight: 50 KGs - 45-60 Rockwell Hardness is required - Fine finish and corrosion free - Suitable and sturdy Anvil Stand	No.	12			
2.	Chain Pulley Block of 3 ton capacity with tripod stand	Chain Pulley Block with compatible tripod stand: - Capacity :3 Ton Tripod Stand Specifications: - Capacity to lift minimum 3 Ton of load - Minimum Height to Eye : 3000 mm - Minimum Leg Length : 3400 mm - Legs should be Adjustable for uneven level ground, shallow slopes and slight inclines. - Feet Should be suitable for hard and soft ground.	No.	1			
3.	Drilling Machine with hammer action -13 mm capacity	Hand Held Portable Drilling Machine with hammer action : - Drilling Capacity :13mm max - Chuck Capacity 1.5–13mm - No Load Speed 0-2800 rpm - Impact Rate 0 - 45000 bpm - Two way Hammering/drilling mode selector switch - Auxiliary handle with depth stop - Operating Voltage 240V, 50Hz	No.	7			
4.	Vibrometer	Vibro Meter : - Measurement Range : 1 to 55 mm/s(RMS) - Frequency Range : 10 Hz to 1000 Hz - Display : LCD - Battery Operated - Temp Range : 0 to 50 deg C	No.	1			
5.	Swage block	Swage block with stand - Specification as per Drawing No DWG-MM-05 Attached - Material : Cast Iron	No.	4			
6.	Engineer's Steel Rule	Engineer's Steel Rule -150 mm - Material: Stainless spring	No.	15			

	-150 mm with Metric and British Scale Graduations	steel or equivalent. - Satin non glare finish - edged graduations for legible reading - Steel rule with mm and inch graduations as per IS Standard, - Length of Scale Greater than 150 mm - Readings from left to right - thickness of the rule shall be 0.8 mm minimum. - Conforming to IS: 1481 or equivalent Standard.					
7.	Engineer's Steel Rule -300 mm with Metric and British Scale Graduations	Engineer's Steel Rule -300 mm - Material: Stainless spring steel or equivalent. - Satin non glare finish - edged graduations for legible reading - Steel rule with mm and inch graduations as per IS Standard - Length of Scale Greater than 300 mm - Readings from left to right - thickness of the rule shall be 0.8 mm minimum. - Conforming to IS: 1481 or equivalent Standard.	No.	15			
8.	Hand Brush	Hand Brush - Block Size: 8-1/2" - Block Type: Wood - Conforming to ISI or equivalent standard..	No.	10			
9.	Measuring Tape - 2 m	Measuring Tape - Shall be able to measure length up to 2 meter. - Length measure shall be made from suitable steels or stainless steel - Measuring tape with mm and inch graduations as per IS Standard, with graduations of 1x 64, 1x32, 1x16 inches on top edge and 1/2 mm, 1/1 mm graduations in the bottom edge. Convenient press and release side lock with Belt clip. - Conforming to IS:1269 or equivalent Standard	No.	20			
10.	Poker	Poker Material: steel Hardened and tempered. size: 150 mm Handle : pvc/ wood Conforming to ISI or equivalent standard..	No.	20			
11.	Cleaning brush	Cleaning brush - 1" Cleaning Brush - Hardwood Handle - Feathered, Crimped Nylon Bristles black or grey, semi-stiff bristles - Conforming to IS: 7477 or equivalent Standard.	No.	20			
12.	Magnifying Glass	Magnifying Glass - circular hand held type magnifier having magnification of 10 x and with clear aperture of 75 mm - Material : Glass and Plastic - Handle Length = 5 to 6 Inches - Conforming to IS: 5148 or equivalent Standard.	No.	10			
13.	Rubber gloves - Pair	Rubber gloves - Pair Material: Rubber Size: Medium	No.	20			

		Reusable Textured for additional grip. Conforming to ISI or equivalent standard..					
14.	Steel wire Brush with wooden handle	Steel wire Brush with wooden handle - Steel wire Brush: 50mmx150mm, 5-Row minimum - Base material: Wood - black or grey, semi-stiff bristles - galvanized iron wire of 0.45+/- 0.05mm diameter. - Conforming to IS: 7477 Standard or equivalent .	No.	10			
15.	Tweezers - 100 mm	Tweezers - Material : Stainless Steel - Size: 100 mm , straight tip - High Precision Fine Tip Symmetry and Balance - Polished Tip Edges – Non-Scratch, Anti-Glare - anti Magnetic - Conforming to ISI or equivalent standard.	No.	6			
16.	Calliper hermaphrodite - Spring joint Type-150 mm	Calliper hermaphrodite - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - One calliper leg and second leg with an adjustment scriber point. - with adjustable hardened point. - Conforming to Standard IS 4189 or equivalent	No.	12			
17.	Calliper Inside - Spring joint Type - 150 mm	Calliper Inside - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - Quick split nut adjustment - Conforming to Standard IS 3209 or equivalent.	No.	12			
18.	Calliper Outside - Spring joint Type - 150 mm	Calliper Outside - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - Quick split nut adjustment - Conforming to Standard IS 3209 or equivalent.	No.	12			
19.	Calliper - odd leg - Spring joint Type - 150 mm	Calliper - odd leg - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - Conforming to Standard IS 4189 or equivalent	No.	12			
20.	Divider - Spring Joint Type - 150 mm	Divider - Spring Joint Type - Made of high grade polished steel. - Size:150mm, spring joint type -Spring is hardened	No.	12			

		& tempered. - with fine adjustment screw. - Conforming to IS :3206 or equivalent Standard					
21.	Divider - Spring Joint Type - 200mm	Divider - Spring Joint Type - Made of high grade polished steel. - Size:200 mm, spring joint type -Spring is hardened & tempered. - with fine adjustment screw. - Conforming to IS :3206 or equivalent Standard.	No.	12			
22.	Scriber	Scriber - Length: 150 mm x 3 mm - Type: straight, - Material: made from steel or alloy steel. - Tips made from either tungsten carbide, hardened steel, tool steel or steel - knurled surface to improve grip and prevent slipping in the user's hand. - Conforming to IS: 12428 or equivalent Standard.	No.	24			
23.	Wire Cutter and Stripper - 150 mm	Wire Cutter and Stripper - size: 150 mm/ 6" - Material: Stainless steel - Insulated handle - Heavy duty construction - Self-Adjusting with cushion handle grip - Conforming to IS: 5087 or equivalent. Standard.	No.	12			
24.	Chisel cold -flat- 10 x150 mm	Chisel cold - Type: Flat - Made from high carbon steel - Dimensions: 10x150 mm - Conforming to IS: 402 or its equivalent Standard.	No.	12			
25.	Hacksaw Frame Fixed Type - 300 mm	Hacksaw Frame Fixed Type - Size= 300 mm - frame made from mild steel. - Thickness of Frame 5mm or 6mm - Wooden Handle for comfortable grip. - hacksaw frames with blade. - Conforming to IS:11828 or equivalent Standard.	No.	42			
26.	Measuring Tape - 5 m	Measuring Tape - Shall be able to measure length up to 5 meter. - Length measure shall be made from suitable steels or stainless steel - Measuring tape with mm and inch graduations as per IS Standard, with graduations of 1x 64, 1x32, 1x16 inches on top edge and 1/2 mm, 1/1 mm graduations in the bottom edge. - Convenient press and release side lock with Belt clip. - Conforming to IS:1269 or equivalent Standard	No.	6			
27.	Brush Steel Wire	Brush Steel Wire - Size :150 x 50 mm, 5-Row - Material : Steel - galvaized iron wire of of 0.45+/- 0.05mm diameter -	No.	12			

		Conforming to IS: 7477 Standard or equivalent					
28.	Chisel cold - flat - 20x150 mm	Chisel cold - Type: Flat - Made from high carbon steel - Dimensions: 20x150 mm - Conforming to IS: 402 or equivalent standard.	No.	12			
29.	Chisel firmer - 6x200 mm	Chisel firmer - Type : Chisel firmer - Dimension : 6 mm X 200 mm - Material : carbon or alloy steel - Cutting edge Hardness : 550HV to 650HV - Head Hardness: 345HV to 450HV. - Handle made up of wood. - Conforming to IS: 402 or equivalent standard	No.	12			
30.	File card	File card - Suitable to clean debris and material build up from metal files and rasp teeths. - Type : double sided brush - size: 3" x5" - Bristle Material: brass or steel wire of Standard size - with wooden handle Length=250mm - Conforming to ISI or equivalent Standard	No.	24			
31.	Number punch Set	Number punch Set. - characters Size : 3mm - Length of punch= 85 mm - Made from high quality Carbon Steel. - Induction hardened to give a Solid Impression. - number punch set includes: 1. Hindu-Arabic Numerals-Numbers consist of 9 Stamps 0 - 8, No. 6 is inverted to make No. 9. 2. Roman Numerals and Arrows- consist of 10 Stamps I - X and → - Conforming to IS: 6864 or equivalent Standard.	No.	7			
32.	Letter Punch set - 5 mm	Letter Punch set - characters Size : 5 mm - Length of punch= 85 mm - Made from high quality Carbon Steel. - Induction hardened to give a Solid Impression. - Letter Punch set includes: Capital letters consist of 27 Stamps A-Z, &. clear characters - Conforming to IS: 6864 or equivalent Standard.	No.	7			
33.	Mortise Chisel	Mortise Chisel Material : high grade Steel, hardened to Rockwell 60-62, cryogenically treated and double tempered. Length = 11" (1/2"). The handle is made of dark stained and waxed beech wood with steel ferrule and hoop. Conforming to IS: 402 or equivalent standard.	No.	12			
34.	Oil Can - 250 ml	Oil Can - made from high quality alloy steel - Capacity: 250 ml - Nozzel is steel & chrome - Pressure Feed System -	No.	24			

		conforming to ISI standard or equivalent standard					
35.	Hammer Ball Pein - 0.22 Kg	Hammer Ball Pein - Type: Ball pein - weight : 220 gms - Material: Drop forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - hammer heads fired/stamped in one piece. - Conforming to IS: 841 Standard or equivalent.	No.	24			
36.	Hacksaw Frame Adjustable Type - upto 300 mm	Hacksaw Frame Adjustable Type -Adjustable Type - Size : up to 300 mm - frame made from chrome plated steel of rectangular cross section of suitable thickness . -with pistol grip plastic handle. - hacksaw frames with blade. - Conforming to IS:11828 or equivalent Standard.	No.	24			
37.	Hand Vice - 37 mm	Hand Vice - Hand vice - 37 mm jaw type - Hardness for jaws=400 to 500HV. - Hardness for spring =450 to 550HV. - material as specified in IS 7958 accordingly or Equivalent - Conforming to IS 7958 or equivalent.	No.	2			
38.	Pliers long nose - 150 mm	Pliers long nose Size:150mm Material: high grade Steel, forged and differentially heat treated Fully polished head or Black phosphated and bright polished head. Hardness of jaws shall be 350 to 550 HVA Fully insulated Quality plastic material sleeves Machined and heat treated jaws. Able to hold very thin wires and cuts fine wires with ease. Conforming to IS Standard or equivalent.	No.	24			
39.	Try Square - 150 mm	Try Square - Length : 150 mm Blade - Stock : cast iron - Blade: stainless steel - Engraved Graduations: in metric & inches. - have accurate right angles on the inside and outside - Conforming to ISI or equivalent standard.	No.	28			
40.	Pliers round nose - 100 mm	Pliers round nose Size:100mm Material: high grade Steel, forged and differentially heat treated Fully polished head or Black phosphated and bright polished head. Hardness of jaws shall be 350 to 550 HVA Fully insulated Quality plastic material sleeves Machined and heat treated jaws.	No.	12			

		Able to hold very thin wires and cuts fine wires with ease. Conforming to IS Standard or equivalent.					
41.	Pliers side cutting - 150 mm	Pliers side cutting Type : Insulated side cutting pliers Size: 150 mm Material : high grade Steel, Forged and differentially heat treated Standard Conforming to IS 4378 or equivalent Standard.	No.	12			
42.	Prick punch - 100 mm	Prick punch - size: 10 mm Dia. x 100 mm length - made from high grade Chrome steel ,forged and accurately machined. - angle of point= 30° - working end shall have a hardness of 545 to 655 HV. - Deep knurling on the body - Conforming to IS: 7177 or equivalent standard.	No.	12			
43.	Centre Punch - 10x100 mm	Centre Punch - size: 10 mm Dia. x 100 mm length - made from high grade Chrome steel ,forged and machined. - working end hardness of 545 to 655 HV. - Conforming to IS: 7177 or equivalent standard	No.	24			
44.	Plier combination - 150 mm	Plier combination Type: Insulated combination pliers Size: 150 mm Material: high grade Steel, forged and differentially heat treated to give best performance. With fully polished head or Black phosphated and bright polished head. Standard Conforming to IS 6149-1984 Grade II or equivalent.	No.	24			
45.	Screw extractor	Screw extractor Suitable to Remove damaged screws quickly and easily. Made from high quality HSS , Screw extractor sizes: 1 to 8 Conforming to ISI or equivalent standard.	No.	2			
46.	Drill twist set - 3-12 mm	Drill twist set - 3-12 mm - Type : Drill twist straight shank - set includes : 3 mm to 12 mm (various sizes increased by 0.5 mm) - Material : High speed steel. - Conforming to ISI or equivalent standard..	No.	3			
47.	Sleeve drill Morse set	Sleeve drill Morse set - Made from high quality alloy steel - Hardened and tempered, precision ground inside and outside to high concentricity. - set includes: No. 0 - 1, 1 - 2, 2 - 3, 3 - 4, 4 - 5 - Conforming to ISI or equivalent standard.	No.	2			

48.	Socket Spanner set with complete accessories	Socket Spanner set with complete accessories Set of 28 pieces upto 32 mm Set includes: - Sockets: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22,23,24,26,27,28,29,30,32 - Adapter - Hex 1/4 inch x SQ, - Adapter Torx: T20, T25, T30, T40, A733 - T-handle, - Extension Bar 2", 4" - Universal Joint - Nut Spinner Flexible, - Speed handle - Ratchet Handle - made of chrome vanadium steel - Conforming to ISI or equivalent standard.	No.	3			
49.	Taper shank drills - Ø 12 mm to Ø 20 mm in steps of 1 mm	Taper shank drills - set ranging from Ø 12 mm to Ø 20 mm in steps of 1 mm of various sizes - Material : HSS - Type Taper Shank - Conforming to ISI or equivalent standard.	set	1			
50.	Allen Key set - Metric	Allen key set - metric - Size: 3 to 12 mm - Ball End Hex Key Set-long type. - Material : high grade alloy steel - Conforming to IS 3082-1988 or equivalent	No.	7			
51.	Dot Punch - 10x100 mm	Dot Punch - 10x100 mm - size: length 100mm, diameter 10mm - Long conical -shaped point, grounded - Angle of Point : 60° - having knurled body - Material : HCS or alloy steel - One-piece construction forged for strength - anti-rust treatment. - Conforming to IS:7177 or equivalent.	No.	12			
52.	Level bottle (sprit) - 150 ml.	Level bottle (sprit) A standrad Level bottle (sprit) 150 ml. Level Accuracy : 0.5 mm/m Sturdy shock proof vials accurate to 0.5mm per meter. 2 vertical and 1 horizontal vial with rubber anti slip end caps. Conforming to Standard IS: 1632,1931 and 5706 or equivalent.	No.	7			
53.	Wire gauge	Wire gauge - Material : Stainless steel - Type: British and Metric - shape: round - Range : up to 36 - Embossed - Conforming to ISI or equivalent standard.	No.	7			
54.	Wrench Adjustable - 150 mm	Wrench Adjustable -Type : Heavy duty - Length: 150 mm - Manufactured from Chrome Vanadium steel with a fully polished satin finish - Hardness: frame handle and jaws =40-48 HRC worm = 30- 45 HRC worm pin = 25-30 HRC - Left hand thumb screw movement - Conforming to IS: 6149 or equivalent Standard.	No.	14			
55.	Hammer cross pein -	Hammer cross pein - Type: cross pein - weight : 250 gms -	No.	24			

	0.25 Kg	Material : Drop forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - Conforming to IS: 841 Standard or equivalent					
56.	Hammer Ball Pein - 0.45 Kg	Hammer Ball Pein - Type: Ball pein - weight : 450 gms - Material: Drop forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - hammer heads forged/stamped in one piece. - Conforming to IS: 841 Standard or equivalent.	No.	12			
57.	Hammer cross pein - 0.5 Kg	Hammer cross pein - Type: cross pein - weight : 500 gms - Material : Drop forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - Conforming to IS: 841 Standard or equivalent.	No.	12			
58.	File flat- second cut 150 mm	File flat- second cut - Type : flat, second cut - Length: 150 mm - Material: High Carbon Steel - wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
59.	File Flat - Bastard 200 mm	File Flat - Bastard - Type : flat, bastard - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
60.	File Flat - Bastard 250 mm	File Flat - Bastard - Type : flat, Bastard - Length: 250 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
61.	File Flat - Bastard 300 mm	File Flat - Bastard - Type : flat, Bastard - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point	No.	24			

		in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard					
62.	File Flat - Bastard 350 mm	File Flat - Bastard - Type : flat, Bastard - Length: 350 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
63.	File half round - second cut - 200 mm	File half round - second cut - Type : half round - second cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
64.	File half round-Rasp- 200 mm	File half round-Rasp - Type : half round , rasp - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
65.	File round- second cut - 200 mm	File round- second cut - Type: Round second cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - Excellent Resistant to Corrosion- with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
66.	File Round-Fine - 150 mm	File Round-Fine - Type :Round, Fine Double Cut - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
67.	File square - second cut - 200 mm	File square - second cut - Type : Square- second cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
68.	File square - second cut - 300 mm	File square - second cut - Type : Square- second cut - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
69.	File triangular - smooth - 200 mm	File triangular - smooth - Type : Triangular, smooth - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle -	No.	12			

		Conforming to IS:1931 or equivalent Standard					
70.	File Triangular- second cut - 150 mm	File Triangular- second cut - Type : Triangular- second cut - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
71.	File feather edge - smooth - 150 mm	File feather edge - smooth - Type : feather edge, smooth - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	6			
72.	File Flat - rough - 300 mm	File Flat - rough - Type : Flat - rough - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
73.	File Flat - smooth - 250 mm	File Flat - smooth - Type : Flat - Smooth - Length: 250 mm - Material: High Carbon Steel - Excellent Resistant to Corrosion - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
74.	File -Flat -Rough double cut - 200 mm	File -Flat -Rough double cut - Type : Flat -Rough, double cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
75.	File -Half Round - Bastard - 300 mm	File -Half Round -Bastard - Type : half round , bastard - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - Excellent Resistant to Corrosion - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	24			
76.	File knife edge - smooth - 150 mm	File knife edge - smooth - Type : knife edge, smooth - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
77.	File- Square - bastard - 300 mm	File- Square - bastard - Type : Square- bastard - Length: 300 mm - Material: High Carbon Steel - taper slightly	No.	12			

		towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard					
78.	File- Square - Smooth - 200 mm	File- Square - Smooth - Type : Square- Smooth - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	No.	12			
79.	Spanner Adjustable - 350 mm	Spanner Adjustable Type: Pipe wrench. size : 350 mm Material : movable jaw : wrought steel Frame : Malleable cast iron. spring : steel Adjustable nut and hinge : Suitable carbon steel. Phosphate plated finish. Conforming to IS 4003 or equivalent.	No.	4			
80.	C -Clamp - 150 mm	C -Clamp - 150 mm - Nominal Size: 150 mm - Material : drop forged from high grade steel. - All parts fully heat treated - Black phosphated coating - Conforming to IS 9181 (1988) or equivalent Standard.	No.	4			
81.	Diamond dresser with holder	Diamond dresser with holder - Material: Steel - Diameter 6mm - diamond carat size: 0.75 / 1.0 - point type: single type. For holder: - size: 70x70x50 mm - Conforming to IS Standard or equivalent.	No.	4			
82.	DE Spanner set - 6-32 mm	DE Spanner set - set contains 12 pcs of 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm. - Material: made from drop forged steel - Machined, Hardened and tempered - Provided with appropriate surface protection for rust prevention. - Conforming to IS:2028 or equivalent standard.	set	7			
83.	Centre drill set	Centre drill set - Set of : A3, A4 & A5 - Material : material HSS drill bits TIN coated - Hardness: 760HV-900HV - Cutting : Right. - Conforming to IS 6708 or equivalent Standard	No.	12			
84.	Safety Belt	Safety Belt Type : Safety Harness Belt Length 1.8 mtr Webbing : Polyester Webbing Minimum Tensile load of 19.6 KN (2000 Kg.) Dimension (D x W x H) 32cmx26cmx20cm Material: High quality polyester with strong grip SPRING HOOK should be attached to safety	No.	4			

		belt. Conforming to IS 3521 or equivalent standard.					
85.	Firemen Axe	Firemen Axe - Material: Vulcanized rubber insulated handle - axe made from forged carbon steel. - Size : 440 mm length. - Color : Handle black, axe chrome plated silver. - Conforming to IS or equivalent.	No.	6			
86.	DE Ring Spanner Set - 6-32 mm	DE Ring Spanner Set - 6-32 mm - Drop forged from high grade Chrome - Vanadium steel. - Heat treated - Set of 12 of size: 6mm to 32mm. - Set includes (metric):6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm. - Conforming to IS:2029 or equivalent Standard.	No.	7			
87.	Electric Stove melting solder	Electric Stove melting solder - Standard size - Rating Power: 150W - Temperature Range: 200-480 degree Celsius - Melting Time: 8 minutes - Max Solder Weight: 500 gram - Solder Pot Size: 50mm diameter - Conforming to ISI or equivalent standard.	No.	2			
88.	File -Swiss type needle- set of 12	File -Swiss type needle- set - Set of 12, Length = 150 mm - File Type : Swiss type needle - File Types Included Barrette; Crossing; Equalling; Flat; Half Round; Knife; Round; Round Edge Joint; Slitting; Square; Three Square - Material: High Carbon Steel - with wooden handle - Conforming to IS:1931 or equivalent Standard	set	2			
89.	Scriber with universal scribing block	Scriber with universal scribing block - Base size - 74 x 76mm. - Pillar Height - 300mm/ 12" - Scriber diameter - 4mm - Hardened and tempered steel base, ground on one end and bottom face. - Vee groove for locating on cylindrical work pieces. - Retractable locating pins - Radial grooves in the side - Knurled thumb screw in rocker for extra fine adjustment - Conforming to ISI or equivalent standard.	No.	4			
90.	Bench Vice - 125 mm	Bench Vice - size: 125 mm - Type: heavy duty , Fixed base - Material : grey cast iron - Hardened Carbon steel jaws serrated for non slip grip. - Forged tommy bar along with the steel main screw - Hardness: 445 to 596 HV. -	No.	20			

		Conforming to IS: 2586 or equivalent standard.					
91.	Bench Vice - 300 mm	Bench Vice - size: 300 mm - Type: heavy duty , Fixed base - Material : grey cast iron - Hardened Carbon steel jaws serrated for non slip grip. - Forged tommy bar along with the steel main screw - Hardness: 445 to 596 HV. - Conforming to IS: 2586 or equivalent standard.	No.	10			
92.	Pipe vice to grip up to 77 mm	Pipe vice To grip up to 77 mm Size : up to 77 mm Steel construction. Hardness-The hardness of the jaw plates shall be 40 to 45 HRC Conforming to ISI or equivalent standard.	No.	2			
93.	Fire Extinguisher , ABC Type	Fire Extinguisher , ABC Type - Material: Mono ammonium phosphate powder 50 % - cylinder capacity: 4 kg min - Type: stored pressure - Color: Red - Suitable for class A,B & C type fire, - Refillable type cylinder - Conforming to IS: 15683 or equivalent Standard.	No.	3			
94.	Fire Extinguisher CO₂ Type	Fire Extinguisher CO ₂ Type - Gas: Carbon dioxide with discharge horn and control mechanism - body made from mild steel. - cylinder capacity: 3 kg - Type: Carbon dioxide stored pressure -Color: Red - Suitable for class B & C type fire, more suitable for flammable liquid, gases & electrical started fire. - Refillable type cylinder - Conforming to IS: 15683 or equivalent.	No.	4			
95.	Fire buckets set with stand	Fire buckets set with stand - Fire Buckets set of 4 pcs. - Size: Standard - Thickness : 18-20 SWG - Material : Made from galvanized sheet - Color: Outside red & inside white - Shape :Bucket- Round bottom - Weight :720 Grams min - Metallic stand to hold 4 buckets - Conforming to ISI or equivalent.	No.	4			
96.	First Aid Box	First Aid Box - Material : Box made from M. S. - Contents of the box: 113 Pieces. of 26 items. - Size= L 26.5 X W 21 X H 15.5 cm. min - Type : B - Color: Green - First aid sign , red in color ,on top & all sides of box. - Conforming to IS: 13115 or equivalent Standard.	No.	7			

97.	Cotton hand Gloves (pair)	Cotton hand Gloves (pair) - size ; 8" - Material : cotton - Conforming to ISI or equivalent Standard.	No.	20			
98.	Leather hand sleeves (pair)	Leather hand sleeves (pair) - size ;16" - Material : leather - heat resistant - Conforming to ISI or equivalent Standard.	No.	10			
99.	Leather apron	Leather apron - Made of superior quality split leather, - Fine finishing - Leather Straps - provision for adjustment - Conforming to ISI or equivalent Standard	No.	10			
100.	Electric Line Tester cum Screw Driver	Electric Line Tester cum Screw Driver - TIP SIZE=3.5 x 0.5mm - Length=170mm minimum Material: High - Grade Steel and Transparent cellulose acetate handle. - Fully insulated blade ensures shock proof working. - Conforming to ISI or equivalent standard.	No.	12			
101.	Screw driver - 9x200 mm	Screw driver Blade Size= 9mm Length = 200 mm Material : high grade steel Handle Material: Transparent green cellulose acetate handle made from high grade C. A. Insulated stem, Chrome vanadium blades for extra strength Black phosphate coated tip reduces slippage Conforming to Standard IS:844 or equivalent	No.	24			
102.	Electrician Screw Driver - 250 mm	Electrician Screw Driver - Size=250 mm - Material : High Grade Steel and Transparent green cellulose acetate handle. - Insulated stem, - Standard IS:844:1979 or equivalent.	No.	24			
103.	Mirror - 100X150 mm	Mirror Mirror plane back silvered and protecting coating Size: 100 x 150x8mm Conforming to ISI or equivalent standard..	No.	7			
104.	Screw Driver set - 10x 200mm	Screw Driver Set - size: 10x 200 mm and 10x250 mm - Type: flat - Blade Material: High Grade Steel - Insulated stem - Handle Material: Cellulose Acetate - The handles shall be provided with proper serrations so that the handles do not slip during usage. - Non Flammable and Not affected by Grease, Oil and Water. - Conforming to IS: 844 or equivalent Standard.	No.	7			
105.	Brass Parallel Rulers	Brass Parallel Rulers - 18" brass Arm Parallel Ruler - 6mm thickness and 45 length. - Solid brass arms and handles -	No.	7			

		Includes protractor scale - Conforming to ISI or equivalent standard					
106.	Air Conditioner	Capacity: 1.5 Ton(s) BEE Rating: 5 Star AC Type: Split Usage: Home Warranty: 1 Year(s) Noise Level Indoor: 48 DB Anti Fungus: Yes Timers: Yes Auto Restart: Yes Sleep Mode: Yes Remote Control: Yes Air Swing: Yes Color: White Tonnage: 1.5- With Inveter	No.	3			

Note: For detailed specifications please refer table 3: Technical Specifications

Lot No : 9							
Lot Name: Furniture for Workshop's							
Item No	Name of Goods or Related Services	Description	Unit of Measure -ment	Quantity	Specification by the supplier (To be filled by the supplier)	Detailed information brochure attached at Page No.	Pass/Fail (By Purchaser)
1.	Almirah-Large	Dimension: H2500 x W1200 x D500 mm - Made of 1.6 mm thick or 16 gauge mild steel sheet - having four shelves and five compartments of adjustable height arrangements - Having Double door with locking arrangements - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey - Legs of the Almirah should have hard rubber shoe	No.	14			
2.	Almirah-Small	Dimension: H1200 x W600 x D450 mm - Made of 1.6 mm thick or 16 gauge mild steel sheet - having three shelves and four compartments of adjustable height arrangements - Having Double door with locking arrangements - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey - Legs of the Almirah should have hard rubber shoe	No.	10			
3.	Chair-Revolving	Revolving computer chair - Seat size 460mm x 460mm and of height 400mm to 510mm (adjustable with hydraulic mechanism) - with arms - Seat and back should be made up of 12mm thick hot-pressed plywood upholstered with fabric and moulded Polyurethane foam (50mm thick. With density 50-55), with 3mm PVC beading - chair on fine quality twin wheel coaster wheels (5 prong base) - heavy duty fabric seat & back	No.	10			
4.	White Board	White Board size Dimensions 6 X 4 feet (1830x1220mm) - Melamine white board or equivalent with smooth surface for writing/ dry erasing -Satin finished strong Aluminium	No.	8			

		frame -Full length marker and eraser tray -Wall mounted arrangement set					
5.	Display Board-with Cover	Dimension: - Length 1200mm X Width 900mm X 50.8mm thickness - frame made of Aluminium channel suitable section covered with transparent acrylic sheet of 0.8mm thickness with sliding door arrangement. - Wall mounting four number bracket arrangements	No.	4			
6.	Metal Rack	Dimension: H1820 x W1520 to 1820(adjustable as required) x D450 mm - Frame should be made of 35x35x3mm slotted angles -Shelf should be Made of 1 mm thick CRC sheet - having four shelves and five compartments with centre support of angle -No joint is allowed on angle and all joints of shelves and angles should be with extra clamps and steel screws - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey	No.	7			
7.	Steel Drawer	Dimensions:- H600XW450XD700 -Made of 1mm CR sheet -Steel ball bearing suspension should be provided for two sliding racks on both sides to open their full depth for total access to the contents - Chrome plated metallic handles - Fixed pedestal - All metallic parts should be anodised and colour smoke grey - Legs of the Book Shelf should have hard rubber shoe	No.	3			
8.	Storage Cabinet	Dimensions:- L600XW450XD700 -Made of 1mm CR sheet - Steel ball bearing suspension should be provided for two sliding racks on both sides to open their full depth for total access to the contents - Chrome plated metallic handles - Fixed pedestal - All metallic parts should be anodised and colour smoke grey - Legs of the Book Shelf should have hard rubber shoe	No.	5			
9.	Wiring Board on Stand	Dimension:- 3000 (L) x 1000 (H) - 500mm projected on top -made of 40mm thick soft wood fitted on frame of MS tube 40 x 40 x 2.6 mm thick including 3 prong on each leg of MS frame -Metallic frame should be anodised and	No.	4			

		coloured with grey paint					
10	Working Bench	<p>Dimensions: - 2500 x 1200 x 750 mm</p> <p>-Frame top size 2300 x 1100 mm made of Square Pipe 50 x 50mm of 1.6mm thickness having four legs with one centre support in top frame of Square pipe 50 x 50mm of 1.6mm thickness.</p> <p>-Four legs supported with each other with Square pipe 50 x 50mm of 1.6mm thickness, 100 mm above floor.</p> <p>-Topping with full length 40mm thick teak slab fitted with dia 6-10mm nut bolt which should be well shanked.- Frame should be enamelled paints</p> <p>- Complete top should be covered with good quality 19mm rubber stuck with teak slab with good quality adhesive-All top edges should be covered with Aluminium Angle of size 25 x 25mm well screwed with machine screws such that the table is rugged for use by students</p>	No.	12			
11	Computer Table	<p>Size: L1200xW550xH850mm for double user & single monitor (TFT) - should accommodate one desktop computer (CPU) below the table - should accommodate one small UPS - should have retractable keyboard tray - should have at least one draw for keeping cables and accessories - table top should be of minimum 19 mm of material either MDF or laminated board - all other parts and panels made of high quality laminated particle board with PVC edges - The particle board should be inner fitted with metal insert type screw fitting.</p>	No.	2			
12	Chair-Tubular	<p>Dimensions :Overall Height: 850mm, Seat Height: 475mm, Overall Width: 567mm, Seat Width: 504mm ,Overall Depth: 600mm,Arm Height: 660mm - 25mm square tubing powder coated satin black frame -Seat and back should be made up of 12mm thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam (50mm</p>	No.	22			

13	Table	Dimensions: L1600 x W900 x H750mm -25mm thick wooden board pasted with teak wood colour sun mica of good quality of size 0.8mm with lipping of Teak wood half round 25mm wide -Frame size L1350mm x W600should be made of ERW Square pipe 35x35x1.6mm -Two drawers should be provided on same side and drawer box should be made of CR sheet 0.80 mm thick of size Deep L510xW450 xH100mm with sliding arrangement - Foot rest should be of ERW square pipe 35x35x1.25mm in full length - Whole frame should be anodised and grey painted -Legs should be packed with good quality rubber shoes	No.	9			
14	Sitting Bench	Four students sitting. Height 600mm width 450mm and length 2400 mm with steel frames and wooden top 50mm	No.	24			
15	Students chairs with writing pads	Dimensions:- Width514 x Depth711x Height816mm - Seat Width444mm Seat Depth431mm Seat Height441mm Back Width444mm Back Height From Seat419mm Arm Height From Seat 292mm - Seat Drain Holes assist in drying, Black Powder Coated Frame Finish - Material :-LEGS: Fabricated by ¾” Dia 18 Gauge Round, MS oil Pipe Powder Coated, Seat & Back: Fabricated By 18 Gauge Perforated Sheet, ARMS: Metal arms, PAD: Laminated plywood Pad	No.	60			
16	Computer Table	Size: L1200xW550xH850mm for double user & single monitor (TFT) - should accommodate one desktop computer (CPU) below the table - should accommodate one small UPS - should have retractable keyboard tray - should have at least one draw for keeping cables and accessories - table top should be of minimum 19 mm of material either MDF or laminated board - all other parts and panels made of high quality laminated particle board with PVC edges - The particle board should be inner fitted with metal insert type screw fitting.	No.	1			
17	Stools	Stool:- Dimension: Height adjustable from 450 mm - 600mm - Seat dimension: 340 x 340mm (minimum) -	No.	2			

		Material: High quality hard wood with smooth upside - Height adjustable with hydraulic mechanism -Strong metallic frame made of metal rectangular pipe with anodised 50x25mm of 1.6 mm thickness -Legs should be packed with good quality rubber shoes					
18	Metal Rack	Dimension: H1820 x W1520 to 1820(adjustable as required) x D450 mm - Frame should be made of 35x35x3mm slotted angles -Shelf should be Made of 1 mm thick CRC sheet - having four shelves and five compartments with centre support of angle -No joint is allowed on angle and all joints of shelves and angles should be with extra clamps and steel screws - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey	No.	4			
19	Carpentry working wooden bench with carpentry Vice	Dimensions: - 1800 x 900 x 750 mm -with wooden top of size 1800 x 900 mm x 40mm with Four wooden legs of size 75mmx75mm with one storage cabinet for tools and materials and two carpentry vices of size: 200mm fitted on the wooden frame of size 1800 mm x300mmx40mm one on each side.	No.	6			

Note: For detailed specifications please refer table 3: Technical Specifications

2. Delivery and Completion Schedule

The delivery period shall start as of *date of Signing the Contract*

Lot No.	Description of Goods or Related Services	Delivery Schedule (Duration)	Location	Required Arrival Date of Goods or Completion Date for Related Services
Lot-1	Lot 1: Sheet Metal Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-2	Lot 2: Electronics Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-3	Lot 3: Electrical Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-4	Lot 4: Carpentry Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.

Lot-5	Lot 5: Smithy Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-6	Lot 6: Welding Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-7	Lot 7: Fitting Workshops Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-8	Lot 8: General Workshops Common Hand Tools & Equipment's	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.
Lot-9	Lot 9: Furniture for Workshops	Within 365 Days from the Signing of the contract.	Government Polytechnic(Women), Rehan Distt. Kangra H.P.	Within 365 Days from the Signing of the contract.

3. Technical Specifications

- Special Note: 1** As a part of Documentation even if not mentioned all items supplied shall have minimum of 1. User/Operation Manual and 2. Warranty Certificate. Additional requirements for specific items will be explicitly mentioned.
- Special Note: 2** The installation has to be carried out as per the guidelines given by the OEM with necessary ground work and fixtures wherever necessary.
- Special Note: 3** All Light, Medium and Heavy machineries and item needing installation either on Ground or on Wall is the sole responsibility of the supplier.
- Special Note: 4** All costs involved in installation such as materials and Labour is to be borne by the Supplier.
- Special Note: 5** Machines and items shall be installed at the identified position in the designated workshop /Laboratory at Government Polytechnic(Women), Rehan Distt. Kangra H.P.
- Special Note: 6** Warranty of One/Two/.. / means that the Supplier of the item takes full responsibility in ensuring the best working condition of the item during the warranty period.
- Special Note: 7** In the event the item is not working the OEM ensure that the item is brought back to best working condition with-in a reasonable period of time not more than 5 days in the worst case.
- Special Note: 8** All parts of the machine not intentionally damaged by the user should be replaced free of cost by the supplier.
- Special Note: 9** All consumable items if any needing replacement will be supplied by the Government Polytechnic(Women), Rehan Distt. Kangra H.P.
- Special Note: 10** All Items of delicate nature shall be supplied in a suitable Cloth/Wooden/ Other suitable storage case/cover for protection of the item from dust and moisture.
- Special Note: 11** Detailed information brochures having specifications, make and model number of individual item to be attached.

Lot 1: Sheet Metal Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Pipe bending machine -Hydraulic type - 12 to 30mm	Pipe Bending Machine : - Type : Hydraulic - Size : 12 to 30 mm - Capacity: 14 to 24 gauge aluminium, copper and steel pipes with formers of 5/8", 3/4" and 1" or any three formers up to 1".	Rugged Construction - Easy to Operate	Standard	One Set of Spare Seals and O- Rings	User/Operating Manual - List of Service Centres in India - Warranty Certificates	Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year

2.	Hand shearing lever type hand operated	Hand shearing machine Lever type : - Operation Mode : Manual - Minimum Capacity: to cut 6mm sheets & Flats - Blade Size : Minimum 300mm	Rugged Construction	Standard	Standard	User/Operatin g Manual - Warranty Certificates	Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
3.	Rivet sets Snap and Dolly combined	Rivet sets Snap and Dolly combined: - Size : 3mm, 4mm, 6mm	Standard	Standard	Standard	Standard	Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
4.	Trammel	Trammel : Range 30cm Material - Stainless Steel	The top of the beam is flattened so that when the trammels are clamped in position, they should not turn from pressure on the points - One trammel should have fine- adjusting screw for the points - Held in place by spring friction, which prevents them from sliding when the nuts are loosened for setting - Trammel should have knurled swivel grip at the top that turns freely, making it very convenient to swing the tool	Standard	Standard	User/Operatin g Manual - Warranty Certificates	Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year

			when scribing circles					
5.	French curves - set of 12	French curves - set of 12 - Material: Transparent Plastic - Set of 12 - Conforming to ISI or equivalent standard	Standard	Dust protection and storage cover - standard accessories.	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
6.	Mallet - Dia 100 mm x 150 mm.	Mallet. size: Dia. 100 mm x 150 mm. Material: Mallet head: timber given in Appendix A of IS: 2922 or equivalent. Mallet handle: in accordance with IS: 620- 1975 or equivalent. Shape: as mentioned in IS 2922 or equivalent Standard. Conforming to IS 2922 or equivalent Standard.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
7.	Hammer Nylon faced	Hammer Nylon faced - Nominal size : ϕ 50 mm , Standard - Nominal length = 355 mm - Material : Nylon inserts shall be made from nylon resins - Holder shall be made from any suitable materials like MS or cast iron. - Handles: wood , Tubular steel or fibre - reinforced plastics. - replaceable nylon inserts. - Conforming to IS: 10838 Standard or equivalent.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

8.	Scissor - 150 mm	Scissor Blade made of good quality stainless steel and handle of brass provides perfect grip size: 150 mm Right hand type Conforming to ISI or equivalent standard..	Sharp blade. - Centre adjustment screw for fine adjustment. - Ergonomic design - Well Polished	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
9.	Hollow punch set	Hollow punch set Type: Hollow Straight Shank punches set size: 6-15 mm dia. Set of 7 pcs. Material: Carbon steel Chrome plated Knurled shank Conforming to ISI or equivalent standard..	Size should be engraved on the punches. - Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
10.	Parallel bar set	Parallel bar set - set of Solid parallels in pairs , of Different sizes in Metric - Each parallel is 1/8" thick x 6" long with 2 holes - set includes 10 pairs of the following heights: 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2" & 1-5/8" - Made from high quality tool steel - accuracy within +/- .0002" - Conforming to IS :4241 or equivalent.	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
11.	Hand Shear Universal - 250 mm	Hand Shear Universal - 250 mm - Type: Universal - Suitable for cutting narrow gauge	Standard	Dust protection and Storage	Standard	Calibration certificate -	To be delivered at Government	One Year

		ferrous and non -ferrous metal sheet. - Overall Length: 250mm - Capacity: 0.8mm - One -piece, drop -forged blades with spring loaded handles. - Conforming to ISI or equivalent standard..		Cover		User/Operating Manual - Warranty Certificates	Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
12.	Straight Edge - 4 feet	Straight Edge - Suitable to check flatness and straightness of the job. - Material: Steel - size: 4 feet - Grade: workshop grade 1 or 2 - Heat treated and stabilized. - hardness: not less than 500HV - All Edges are Grounded with Straight Edge Precision Tolerance - Conforming to IS: 2220 or equivalent Standard.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
13.	Stake grooving - 100 x 100 x 300	Stake grooving - Suitable for use in forming beads and edges. - Size: 100 X 100 X 300 mm - Material : forged steel - Conforming to ISI or equivalent standard..	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
14.	Snip Aviation - 300 mm	Snip Aviation Type: Aviation snips straight cut type Size : 300 mm Material : Chrome Vanadium Steel With sharp cutting edges Conforming to ISI or equivalent standard.	Ergo gripped handle	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty	To be delivered at Government Polytechnic (Women), Rehan Distt.	One Year

						Certificates	Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
15.	Snip bent - 250 mm	Snip bent - Heavy duty bent type snip - Size: 250 mm - Drop forged from high quality carbon steel - heat treated to give tough body - cutting edges are induction hardened - cutting edges are sharp and precision machined to appropriate angle to cut sheets with ease - Provided with fixed stopper, which protects fingers from getting injured due to excessive closing on shanks - Conforming to Standard IS: 6087 or equivalent.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
16.	Snip Straight - 250 mm	Snip Straight - Heavy duty Straight type snip - Size: 250 mm - Drop forged from high quality carbon steel - heat treated to give tough body - cutting edges are induction hardened - cutting edges are sharp and precision machined to appropriate angle to cut sheets with ease - Provided with fixed stopper, which protects fingers from getting injured due to excessive closing on shanks - Conforming to Standard IS: 6087 or equivalent.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
17.	Templates – Circle, Ellipse, furniture, etc.	Templates – Circle, Ellipse, furniture, etc. - Made out of durable, translucent green, flexible plastic. - Complete openings for furniture and appliance arrangements in 1/4" to 1' scale. - Expedites planning for kitchens, dining rooms, family and living rooms, libraries and bedrooms. - One side	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh -	One Year

		calibrated in 1/4" scale. - Standard Sizes - Conforming to ISI or equivalent standard.					Training as required by staff of Polytechnic	
18.	Treadle Guillotine shearing machine:	Treadle Guillotine shearing machine: Max.width of cut=3.5ft,max.cutting cap 22 gauge	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
19.	Punching machine hand operated.punching machine with handle	Punching machine hand operated. Punching machine with handle with max round dia. up to thickness of plate 1.5mm	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
20.	Hand punching machine capacity 26SWG dia 3mm	Hand punching machine capacity 26SWG dia. 3mm	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of	One Year

							Polytechnic	
21.	Bending machine :Length capacity 3.5',16 SWG with accessories	Bending machine :Length capacity 3.5',16 SWG with accessories	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
22.	Notching machine :Heavy work/duty	Notching machine :Heavy work/duty	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
23.	Portable furnace with blower	Portable furnace with blower attachment : standard height of brazing and soldering with brazing clamp.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

24.	Drawing machine	Drawing machine /screw press : punch and die set for shallow and deep drawing	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
25.	Railway line	Railway line : 2100mm length	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
26.	Universal working plate 4'x6'x1.5"(solid M.S.)	Universal working plate 4'x6'x1.5"(solid M.S.)	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
27.	Bench plate /universal stake	Bench plate /universal stake holder : 24"x36"x3"	Standard	Dust protection and Storage	Standard	Calibration certificate -	To be delivered at Government	One Year

	holder : 24"x36"x3"			Cover		User/Operating Manual - Warranty Certificates	Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
28.	Stakes	Set of Stakes :creasing stakes ,funnel stakes, anvil stakes ,bottom stake, Tinman's mandrill ,half-moon stakes, hatchet stakes, a bench horse, round bottom ,grooving stake etc.	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
29.	Folding and grooving bar	Folding and grooving bar:2100x150x150mm	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
30.	Special steel metal hammer:plansing hammer:rivetting hammer	Set of Special steel metal hammer: plansing hammer: riveting hammer square face hammer ,forming hammer ,raising hammer, chasing hammer, creasing hammer, hollowing hammer ,blocking hammer,	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty	To be delivered at Government Polytechnic (Women), Rehan Distt.	One Year

		stretching and smoothing hammer . (500gms each)				Certificates	Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
31.	Mallet:plane ,parallel head ,round head,flat head,hemispherical	Set of Mallet: plane , parallel head ,round head, flat head, hemispherical pear shaped matted soft melting :soft material	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
32.	Bar folder :length capacity 3ft and thickness 16SWG	Bar folder :length capacity 3ft and thickness 16SWG	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
33.	Pneumatic pop riveting machine	Pneumatic pop riveting machine	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh -	One Year

							Training as required by staff of Polytechnic	
34.	Digital screw gauge(0-25mm)	Digital screw gauge(0-25mm) L.C. 0.01mm	Standard	Dust protection and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
35.	SPINNING LATHE MACHINE	Extra Heavy Duty Bed, Length= 1368mm, Width of Bed= 289mm, Height Of The Centre= 278mm, Diameter Of The Spindle= 63mm Length of Spindle= 508mm , 2"4 Thread Per inch= 2"51mm Approximate Weight= 550kg Motor: 2 H.P. 3 phase With all type of accessories, attachments, spares and tools.	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

Lot 2: Electronics Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Thimbles of different sizes	Thimbles of different sizes Packets: - Material: Copper - Size (mm ²) : 0.5 – 0.75, 1.0 – 1.5 , 2.5, 4,6	Standard	Standard	Standard	Standard	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
2.	Knife Double Bladed Electrician - 100 mm	Knife Double Bladed Electrician Type: Knife Double Bladed Size : 100 mm Material: stainless steel Double Bladed locking electricians knife with hardwood handle Pocket knife type Conforming to ISI or equivalent standard..	Standard	Dust protection and Storage Cover		Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
3.	Electrician Knife - 100 mm	Electrician Knife - 100 mm Size :100mm Material: stainless steel, Large curved hawk bill blade with shackle at end. Handle : hardwood Conforming to ISI or equivalent standard	Ideal for stripping insulated electrical wires or stripping bark of saplings. - Other Standard features	Dust protection and Storage Cover		Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
4.	Electrician screw driver - 4mm X 100 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 100 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or	Non Flammable and Not affected by Grease, Oil and Water. - Other Standard features	Dust protection and Storage Cover		Warranty Certificate Operating Manual/ user Manual, - Contact	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

		equivalent Standard				detail of Local Service Providers		
5.	Electrician screw driver - 4mm X 250 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 250 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or equivalent Standard.	Non Flammable and Not affected by Grease, Oil and Water. - Other Standard features	Dust protection and Storage Cover		Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
6.	IC Puller	IC Puller - For 8-40 pins dip and microchips. – Electrostatic discharge insulated plier grip handle for static charge damage protection. - Conforming to ISI or equivalent standard..	Robust metal/non metal construction. - Other Standard features	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
7.	Philips screw driver set	Philips screw driver set Philips screw driver complete set Material: high Grade steel Handle : Transparent green cellulose acetate Insulated stem Conforming to ISI or equivalent standard.	Hardened and tempered - Comfortable grip - Non Flammable and Not affected by Grease, Oil and Water	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
8.	De soldering Gun	De soldering Gun - Heat proof nozzle, PVC type, 250mm . - Power rating = 80W - Temperature Setting Range=250-450°C - power cord length= 1.5 meter - Operating Voltage:220–240V - Conforming to ISI or equivalent standard..	Standard	Nozzle cleaning kit. - Heat Resistant Pipe/ stand. - Dust protection and storage cover/	One Spare Nozzle - Other Standard spare	Warranty Certificate Operating Manual/ user Manual, - Contact	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

				case. - Other Standard Accessories.	parts	detail of Local Service Providers		
9.	Crimping Tool (7 in 1)	Crimping tool (7 in 1) - Suitable for Crimping, cutting and stripping BNC, RJ-45 Cat5, Cat 5e & Cat6 Connectors. - Operation Type :Manual - Material : Steel and plastic handle - Die less Operation - Crimping range from 1.5 mm ² to 16mm ² - Conforming to ISI or equivalent standard	easy to handle - Compatible Die Types: BNC, RJ-45, MX Cat5, Cat 5e and Cat 6 connectors - The jaw is made from EN 19 forging flat to accommodate all lengths of end sleeves - Handles made from spring steel - Rubber grips provide ergonomic handling and a good grip. - Ratchet mechanism for quick locking and unlocking. - Pressure adjustment system - Other standard features.	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
10.	Thin Connector Screw Driver - Insulated handle	Thin Connector Screw Driver - Insulated handle Type: Insulated handle thin connector screw driver Material: Steel or alloy steel. Handle: Insulated Plastic or Fibre or Cellulose Acetate (CA) material Blades of screwdrivers shall be plated with nickel, chromium or zinc; or by any other suitable	The handles shall be provided with proper serrations so that the handles do not slip during usage. - The handles	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

		process. Standard IS: 844 or equivalent Standard.	shall be finished smooth and shall be convenient for holding. - The screwdriver points shall be ground blunt and shall lie in the same plane as the axis of the blade. Standard			Local Service Providers		
11.	Digital Tachometer	Digital Tachometer - Suitable for measurements of RPM's of motors, mixers, pumps, fans etc. and surface speeds of conveyor belts etc. - Type: Contact type Digital Tachometer, Hand Held - Measuring Range: up to 99999 RPM - Resolution: 0.1 RPM < 999.9 RPM; 1 RPM > 1000 RPM - Display: Preferably LCD or LED Display - - Auto power off facility - Conforming to ISI or equivalent standard	Memory facility to retain measured value Portable, Light weight - Moulded Body - Anti-slippage Body type - other Standard features	Standard accessories - Dust protection and Storage Cover/ case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
12.	Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod	Screwdriver Set - Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod - Material: Carbon Steel. - Handle: Insulated Plastic or Fibre or Cellulose Acetate (CA) material - Conforming to ISI or equivalent.	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
13.	CRO Dual beam	CRO Dual trace/ Double beam <ul style="list-style-type: none"> - DC: 60 Mhz Bandwidth - 1Mv/Div Sensitivity on both channels - X-Y operation - 40Ns/Div to 0.2 sec per division 	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

		Time Base - Z modulation - Minimum 8X10 cm LCD Display - Tv Triggering frame (v) & Line (H) - Line trigger - Component Tester Power Supply: AC 220 V \pm 10%, 50 Hz				detail of Local Service Providers		
14.	Digital Multimeter	Digital Multimeter 3.5digits. - AC: 750 volt - Dc: - 1000 volt - Current: - 10 Ampere - Resistance Measurement, Capacitor Measurement - Diode Testing - Transistor testing - Continue Testor	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
15.	Analogue multimeter	Analogue multimeter T-3 Type - AC: 750 volt - Dc: - 1000 volt - Current: - 10 Ampere - Resistance Measurement, Capacitor Measurement - Diode Testing - Transistor testing - Continue Testor	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
16.	Soldering and desoldering station	Soldering and desoldering station 100 watt	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

17.	Soldering station 45watt.	Soldering station 100 watt.	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
18.	Audio Oscillator Digital.	Audio Oscillator Dig.(10Hz to 100KHz Sine - square wave)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
19.	Function Genrator Digital.	Function Generator Dig.(0.3Hz to 3MHz sine, square ,Triangle)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
20.	LCR Meter Digital.	LCR Meter Dig.(0.1micro Hz 99990.1H .001ohm to 100meg ohm)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

21.	Power Supply Digital	Power Supply Dig. (0 to 30volt DC & 3Amp.)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
22.	Soldering iron 10Watt,25watt,35 watt	Set of Soldering iron 10 Watt,25 watt,35 watt	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
23.	Soldering Stand base iron, ceramics	Soldering Stand base iron, ceramics	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
24.	Tweezers steel 150mm	Tweezers steel 150mm	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

25.	CTV-DTH 575mm (23") LCD/LED	CTV-DTH 575mm (23") LCD/LED	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
26.	PCB drilling machine	PCB drilling machine 0.5 - 5mm portable	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
27.	PCB etching tank	PCB etching tank 10ltr.capacity (Ferric chloride)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
28.	Reading lamp Illumination magnifying glass	Reading lamp Illumination magnifying glass 10 to 20 times	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

29.	Display Board	Display Board Different types of wires cable including optical	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
30.	Display Board Different types of Resistant	Display Board Different types of Resistant	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
31.	Display Board Different types of Capacitor	Display Board Different types of Capacitor	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
32.	Display Board Different types of Transistor	Display Board Different types of Transistor	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

33.	Display Board Different types of Diode,SCR,Triac	Display Board Different types of Diode, SCR, Triac	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
34.	Display Board Different types of IC's analogue digital SMD Comp.	Display Board Different types of IC's analogue digital SMD Comp.	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
35.	Display Board Different types of Connector jacks	Display Board Different types of Connector jacks	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
36.	Display Board Different types of Switches ,rotary and slide	Display Board Different types of Switches ,rotary and slide	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

37.	Display Board Different types of Micro switches	Display Board Different types of Micro switches.	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
38.	Display Board Different types of MCB fuse read relay,different type	Display Board Different types of MCB fuse read relay, different type	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
39.	Display Board Different types of PCB general purpose Single,double,multi	Display Board Different types of PCB general purpose Single, double, multi	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
40.	Display Chart half wave full wave bridge rectifire CKT	Display Chart half wave full wave bridge rectifier CKT	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

41.	Display Chart common emitter base collector transistor circuit	Display Chart common emitter base collector transistor circuit	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
42.	Display Chart SCR triac using diac circuit	Display Chart SCR triac using diac circuit	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
43.	Ball pein hammer cap. 0.25kg	Ball pein hammer cap. 0.25kg	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
44.	Tubing cutter	Tubing cutter	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year

45.	Earth tester Digital	Earth tester Digital	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
46.	Allen Key Set	Allen Key Set dia. 1.5mm to 10mm	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year

Lot 3: Electrical Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Thimbles of different sizes	Thimbles of different sizes Packet: - Material: Copper - Size (mm ²) : 0.5 – 0.75, 1.0 – 1.5 , 2.5, 4,6	Standard	Standard	Standard	Standard	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
2.	Knife Double Bladed Electrician - 100 mm	Knife Double Bladed Electrician Type: Knife Double Bladed Size : 100 mm Material: stainless steel Double Bladed locking electricians knife with hardwood handle Pocket knife type Conforming to ISI or equivalent standard..	Standard	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
3.	Electrician Knife - 100 mm	Electrician Knife - 100 mm Size :100mm Material : stainless steel, Large curved hawk bill blade with shackle at end. Handle : hardwood Conforming to ISI or equivalent standard	Ideal for stripping insulated electrical wires or stripping bark of saplings. - Other Standard features	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
4.	Electrician screw driver - 4mm X 100 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 100 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or	Non Flammable and Not affected by Grease, Oil and Water. - Other Standard features	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year

		equivalent Standard				detail of Local Service Providers		
5.	Electrician screw driver - 4mm X 250 mm	Electrician screw driver Type : Electrician screw driver thin stem insulated handle Size : 4mm X 250 mm Material: High Grade Steel or alloy steel Handle Material: Green Cellulose Acetate made from High Grade C. A. Plastic. - Conforming to IS 844-1979 or equivalent Standard.	Non Flammable and Not affected by Grease, Oil and Water. - Other Standard features	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
6.	Philips screw driver set	Philips screw driver set Philips screw driver complete set Material: high Grade steel Handle : Transparent green cellulose acetate Insulated stem Conforming to ISI or equivalent standard.	Hardened and tempered - Comfortable grip - Non Flammable and Not affected by Grease, Oil and Water	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
7.	De soldering Gun	De soldering Gun - Heat proof nozzle, PVC type, 250mm . - Power rating = 80W - Temperature Setting Range=250-450°C - power cord length= 1.5 meter - Operating Voltage:220–240V - Conforming to ISI or equivalent standard..	Standard	Nozzle cleaning kit. - Heat Resistant Pipe/ stand. - Dust protection and storage cover/ case. - Other Standard Accessories.	One Spare Nozzle - Other Standard spare parts	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
8.	Crimping Tool (7 in 1)	Crimping tool (7 in 1) - Suitable For Crimping, cutting and stripping BNC ,RJ-45 Cat5, Cat 5e & Cat6 Connectors. - Operation Type :Manual - Material : Steel and plastic handle - Die less Operation - Crimping range from 1.5 mm ² to 16mm ² - Conforming to ISI	easy to handle - Compatible Die Types: BNC, RJ-45, MX Cat5, Cat 5e and Cat 6 connectors - The	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year

		or equivalent standard	jaw is made from EN 19 forging flat to accommodate all lengths of end sleeves - Handles made from spring steel - Rubber grips provide ergonomic handling and			detail of Local Service Providers		
9.	Thin Connector Screw Driver - Insulated handle	Thin Connector Screw Driver - Insulated handle Type: Insulated handle thin connector screw driver Material: Steel or alloy steel. Handle: Insulated Plastic or fibre or Cellulose Acetate (CA) material Blades of screwdrivers shall be plated with nickel, chromium or zinc; or by any other suitable process. Standard IS: 844 or equivalent Standard.	The handles shall be provided with proper serrations so that the handles do not slip during usage. - The handles shall be finished smooth and shall be convenient for holding. - The screwdriver points shall be ground	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
10.	Hand blower portable complete with accessories	Hand blower portable complete with accessories - Type: portable - Power -1/10 HP (electrical type) - Material: Cast Aluminium. - power source: Electric - Generally Conforming to ISI or equivalent standard..	Sturdiness - Anti corrosive - Flawless finish	Dust protection and storage cover - Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
11.	Digital Tachometer	Digital Tachometer - Suitable for measurements of RPM's of motors, mixers, pumps, fans etc. and surface speeds of	Memory facility to retain measured value	Standard accessories - Dust protection	Standard	Warranty Certificate Operating	At the Government Polytechnic (1 Year

		conveyor belts etc. - Type: Contact type Digital Tachometer, Hand Held - Measuring Range: up to 99999 RPM - Resolution: 0.1 RPM < 999.9 RPM; 1 RPM > 1000 RPM - Display: Preferably LCD or LED Display - - Auto power off facility - Conforming to ISI or equivalent standard	Portable, Light weight - Moulded Body - Anti-slippage Body type - other Standard features	and Storage Cover/ case		Manual/ user Manual, - Contact detail of Local Service Providers	Women), Rehan Distt. Kangra HP	
12.	Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod	Screwdriver Set - Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod - Material: Carbon Steel. - Handle: Insulated Plastic or fibre or Cellulose Acetate (CA) material - Conforming to ISI or equivalent.	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
13.	Soldering iron	Set of Soldering iron copper bit 25,35,40,65,125 watt(one each)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
14.	Tenon saw steel	Set of Tenon saw steel 30cm,45cm	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
15.	cold chisels steel	Set of cold chisels steel 15cm,20cm	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP	
16.	Firmer chisels	Set of Firmer chisels 1.25cm,1.9cm,2.54cm	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
17.	Brace handle Ratchet	Brace handle Ratchet hand drilling machine 12mm	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
18.	Hand plug tools steel	Set of Hand plug tools steel 8.9 and 10 Nos	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
19.	Hand vice	Set of Hand vice 25,50,100,150mm	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP	
20.	Hydrometer	Hydrometer	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
21.	Battery charger	Battery charger 6,12,24,48 volts	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
22.	High rate discharge battery cell tester	High rate discharge battery cell tester	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
23.	Electrical iron (ordinary)	Set of Electrical iron (ordinary)750&100 watts	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP	
24.	Automatic iron heavy weight	Automatic iron heavy weight 750 watts	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
25.	Automatic iron light weight	Automatic iron light weight -1000 watt	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP	1 Year
26.	Electrical kettle	Electrical kettle 1&2 litres	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
27.	Ceiling fan	Ceiling fan	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP in HP	
28.	Table fan	Table fan	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
29.	Mixture electrical grinder	Mixture electrical grinder	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
30.	Geysers Electric	Set of Geyser Electric 2.5,10,20 litres	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
31.	Energy meter Induction type	Energy meter Induction type 5-10-20-25 Amp,240V,50Hz	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP in HP	
32.	Electronic energy meter 5-30 Amp,240V	Electronic energy meter 5-30 Amp,240V	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
33.	Electric Heater 1000,2000 watt	Electric Heater 1000,2000 watt	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
34.	Heat convector	Heat convector 2000 watt	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
35.	DOL starter	DOL starter for three phase motor 1.5 H.P.to 2H.P.	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP in HP	
36.	Star delta starter	Star delta starter	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
37.	3 phase motor 2h.p	3 phase motor 2h.p.having six terminals	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
38.	Electric Oven	Electric Oven 30-250 Degree temperature	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
39.	Multi meter analog type	Multi meter analog type	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP in HP	
40.	Megger digital type 500 to 1000V DC	Megger digital type 500 to 1000V DC	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
41.	A.C. clip on meter	A.C. clip on meter (tong tester)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
42.	Immersion rod	Set of Immersion rod 1000 ,1500,2000watt	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
43.	Ampere meter	Ampere meter 0-40 Amp	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP in HP	
44.	Volt meter 0-500volts	Volt meter 0-500volts	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
45.	Latest complete hand tool kit (for general workshop)	Latest complete hand tool kit (for general workshop)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
46.	Earth tester digital and analog	Set of Earth tester (digital and analog)	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
47.	Insulation tester digital and analog	Set of Insulation tester (digital and analog)	Standard	Standard	Standard	Warranty Certificate	At the Government	1 Year

						Operating Manual/ user Manual, - Contact detail of Local Service Providers	Polytechnic (Women), Rehan Distt. Kangra HP in HP	
48.	Contraction control circuit trainer model IACS-ECCP	Contraction control circuit trainer model IACS-ECCP	Standard	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year

Lot 4: Carpentry Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Handsaw - 450mm	Handsaw Length 450 mm Thickness: 0.80 mm width at one end 125 mm & 45 mm on the other Shape: Trapezium Seven teeth per inch Hardened cutting edges. Straight Cutting edge Material: Blade made of hardened & tempered spring steel strips Handle : wooden/ plastic Conforming to ISI or equivalent standard..	Standard	Large split leather Hacksaw Cover. - With Safety Strap.	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
2.	Oil stone 150X50X25mm	Oil stone - Oil Stone Size: 15x5x2.5 cm - Grit type: fine, coarse - Grit material:150 Grit and Fine side	Standard	Dust and storage cover	Standard	Warranty Certificate Operating	To be supplied and installed at Government Polytechnic (Women), Rehan Distt.	Two Years

		400 - Combination oilstone has 100 grit on one face for repairing steel cutting edges and 320 grit on the opposite face for sharpening and maintaining them. - Material: aluminium Oxide / Silicon carbide - Prefilled with oil to allow lubricant to stay on surface during sharpening - suitable for use as a bench sharpener for knives and tools -Conforming to ISI certified or Equivalent Standard				Manual/ user Manual, - Contact detail of Local Service Providers	Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
3.	Pincer - 150 mm	Pincer size: 150 mm Material: Drop forged from carbon steel. Standard Conforming to IS or equivalent	Duly hardened. - Head polished cutting edge. - Induction hardened.	Dust protection and Storage Cover/case. Other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

						Service Provider s		
4.	Blow Lamp - 0.5 Litre	Blow Lamp - capacity : 0.5 litre - Material : brass - Conforming to IS- 1899 or Equivalent Standard.	Rigid Construction - Other Standard features	one packet of three nipple prickers. - One sprit can - one funnel - one washer each for pump and oil filler cap - one nipple - Dust protection and storage cover - other Standard Accessorie s	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
5.	Tenon saw - 250 mm	Tenon saw - 250 mm - saw shall have a fairly short, stiff blade with a wooden or steel spine running along its back. - Length=250 mm - Steel blade	Standard	Dust protection and Storage Cover/cas e. Other Standard accessorie s	Standard	Warrant y Certifica te Operati ng Manual/ user Manual,	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh -	Two Years

		hardened, tempered, straightened and stress relieved to ensure straightness. - 10-14 TPI design to allow fast cutting with sawdust removal in both forward and reverse action. - Shock absorbing ergonomic soft grip handle - suitable anti-corrosive surface treatment shall be given to Tenon's. - Conforming to ISI or equivalent standard.				- Contact detail of Local Service Providers	Training as required by staff of Polytechnic	
6.	Rule Wooden - 4 fold, 600 mm	Rule Wooden - 4-fold Type: Foldable rule wooden No. of fold: 4 length: 600 mm material: Well-seasoned hardwood with brass joints Large digits for better readability, even under poor visibility conditions. Black measuring scale with clear	weather-resistant paint to protects the wooden sections and the scale. - Other standard features	Dust protection and Storage Cover/case. Other Standard accessories	Standard	Warranty Certificate Operating Manual/user Manual, - Contact detail of Local Service	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		printed impression. Red tens for quick orientation. Inch, cm, mm scale on both sides of both rule edges. Conforming to ISI or equivalent standard..				Provider s		
7.	universal wood working machine planing	universal wood working machine planing bed 12" circular saw blade ,drilling attachment with all accessories. Thickness: 260-310mm Moulding capacity: 20-60mm Slotting table size: - 180X400 mm Table Size: - 660 X 585mm Motor power: - 3HP 1440 rpm	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
8.	Electric Sanding machine .	Electric Sanding machine . Sanding plate: - 182mm Sanding sheet for clamping: - 230mm Sanding sheet with velcrow type fastning : - 185mm No load speed: - 0-	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, -	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	Two Years

		12000 rpm Power consumption: - 190 watt Oscillating circuit diameter : - 2mm				Contact detail of Local Service Providers	required by staff of Polytechnic	
9.	Electrical hand planer 1 phase 220V	Electrical hand planer Weight: - 2.8 to 3 KG Wattage:- 650 watt Speed: - 16000-17000 rpm	Standard	Dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
10.	Electric jigsaw	Electric jigsaw Weight: - 2 kg Power: - 450 watt No load speed: - 800 -3100 rpm	Standard	Dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

						Provider s		
11.	Electrical router	Electrical router Wight:- 3.5 kg Wattage: - 1400 watt Speed: - 11000 – 28000 rpm	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
12.	Iron Jack Plane	Iron Jack Plane 350mm	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
13.	Iron Jack Plane	Iron Jack Plane 225mm	Standard	Dust and storage	Standard	Warrant y	To be supplied and installed	Two Years

				cover		Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
14.	Hand saw	Handsaw 450mm	Standard	Dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
15.	Hand saw	Handsaw 400mm	Standard	Dust and storage cover	Standard	Warranty Certificate Operating	To be supplied and installed at Government Polytechnic (Women), Rehan Distt.	Two Years

						Manual/ user Manual, - Contact detail of Local Service Provider s	Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
16.	Bow saw	Bow saw 300mm	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
17.	Claw hammer	Claw hammer	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	Two Years

						Contact detail of Local Service Providers	required by staff of Polytechnic	
18.	Marking gauge AI	Marking gauge AI	Standard	Dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
19.	Mortise gauge AI	Mortise gauge AI	Standard	Dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

						Provider s		
20.	Ratchet brace 10mm	Ratchet brace 10mm	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
21.	Saw set plier	Saw set plier	Standard	Dust and storage cover	Standard	Warrant y Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
22.	Speed Lathe (Wood working)	Speed Lathe (Wood working) Length of	Standard	Dust and storage	Standard	Warrant y	To be supplied and installed	Two Years

	Length of bed 2400mm Taper MT-3	bed 2400mm, Motor 2 H.P. Taper MT-3. Motor with all types of accessories ,attachments, cutting tools and spares.		cover		Certifica te Operati ng Manual/ user Manual, - Contact detail of Local Service Provider s	at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
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Lot 5: Smithy Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Trowel C-125	Trowel C-125 - Narrow, c- type trowel - size: 125 mm - Material: Forged from a single piece of high grade tool steel - Trowel blades are precisely taper ground to perfect balance and flexibility. - The ergonomic designed handle (wooden/ plastic) ensure a firm comfortable and durable grip. - Conforming to	Standard	Dust and Storage Cover	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

		Standard IS: 6013 or equivalent.						
2.	Flat Tongs - 350 mm long	Flat Tongs - Size: 350mm long - Made from low carbon steel - Flat Jaw , medium close mouth - rivets shall be of pan head type and shall be neatly snapped. - shall be properly aligned and shall not have any undue play or stiffness. - Conforming to IS:843 Standard or its equivalent.	Standard	Dust protection and storage cover - standard accessories	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
3.	Hammer Double faced - 2.5 Kg	Hammer Double faced - Type: Double face sledge hammer 2.5 Kg. - The hammer heads shall be manufactured from fully killed forging quality steel , - Hardened and tempered up to 46 - 58 HRC on Striking faces and peins. - Drop forged from high grade carbon steel. Phosphated and painted to	Standard	suitable box for storage - other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

		provide anti rusting properties. - Handle made from high quality axle wood and fixed firmly to hammer head. - The hammer heads shall be varnished all over or coated with an approved anti-corrosive paint, except the ground portion, which						
4.	Swaging tool, punch type, set - 4.7 to 16 mm OD	Swaging tool, punch type, set - suitable for tube 4.7mm to 16mm O.D - set contents swaging tool: 3/16", 1/4", 5/16", 3/8", 1/2" and 5/8" O.D. tubing - made from alloy steel - Heat treated - Hex design - Machined surface. - chrome plated - Conforming to ISI or equivalent standard.	Swaging tool, punch type, tool suitable for making tubing connections without fittings. Enlarge end of tube, insert another tube of original O.D. size and solder together like a sweat fitting. - Other Standard features	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
5.	Hammer Sledge - double faced - 6 kg	Hammer Sledge - double faced - Drop forged from high grade carbon	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/	To be delivered at Government Polytechnic (One Year

		steel. - Double faced - weight : 6 Kg - Hardened and tempered up to 46 - 58 HRC on Striking faces and peins. - Phosphated and painted to provide anti rusting properties. - Handle of Standard size, made from high quality axle wood and fixed firmly to hammer head. - The hammer heads shall be varnished all over or coated with an approved anti-corrosive paint - Ground portion varnished. - Conforming to IS:841 or equivalent Standard.				user Manual, - Contact detail of Local Service Providers	Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
6.	Tong set	Tong set - Suitable to hold the jobs in position and turning over during forging operation - made from mild steel. - set includes -Close mouth and pick up type tong -	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	One Year

		lengths of the tongs in hand forging - from 400 mm to 600 mm with the jaws' opening ranging from 6mm to 55 mm approx., - rivets shall be of pan head type and neatly snapped. - balls at the end of the reins for maximum control. - Conforming to ISI or equivalent standard.				Service Providers	required by staff of Polytechnic	
7.	Black smith forge (Open Hearth Furnace)	Black smith forge with blower motor: org size : 4'x2'x2.6" with following parts :Legs plates form ,body, Nozzle, water tank ,black plate , Valve, Coal tank ,Hood, Chimney etc. Blower with motor :Blower size dia. 2', motor 2 H.p.,2860r.p.m.440 Volts, 3 Phase	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
8.	Power hammer	Power hammer with motor :Rams weighing =50kg motor=2H.P.,3	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/	To be delivered at Government Polytechnic (One Year

		Phase ,1440r.p.m. 440 volts				user Manual, - Contact detail of Local Service Providers	Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
9.	Finishing tools	Finishing tools :swage set of top and bottom	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
10.	Finishing tools	dif. Types sectional shape round square or hexagonal	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
11.	Fuller set top/bottom diff. variety of shapes	Fuller set top/bottom diff. variety of shapes	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, -	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in	One Year

						Contact detail of Local Service Providers	Himachal Pradesh - Training as required by staff of Polytechnic	
12.	Flatter : Flat surface	Flatter : Flat surface	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
13.	Muffel furnace :	Muffle furnace :Rectangular muff furnace size 12"x6"x6",voltage 220 to 240V current a .c., cycles =50Hz	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
14.	Chop Saw/ Pipe Cutting M/c	chop Saw/ Pipe Cutting M/c	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	One Year

						Local Service Providers	required by staff of Polytechnic	
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Lot 6: Welding Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Transformer welding set - continuous welding current, with all accessories and electrode holder with Standard Accessories	Welding Transformer with all accessories - Three Phase ,415V - Open circuit voltage range : 60-100 V - Welding Current Range 80–500 A - Current @ 60% duty cycle: 400 A - Display of Current & Voltage Digital - Electrode holder	Forced air cooling type - Display of Current & Voltage Digital - Step less, smooth and infinitely variable current regulation. - One swivel front wheel and two rear wheel arrangement for easy manoeuvrability . - On/Off switch control, current control and current	Copper Welding Cable with Tough Rubber Size: 50 SQ MM (50 Mtrs) -Suitable Welding Lugs for 50 SQ mm Copper Welding Cable - Welding Holder - Earth Clamp	Standard	User/Operating Manual - List of Service Centres in India - Warranty Certificates	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

			indicator provided on the front panel.					
2.	Welder cable	Welder cable : - Size: 50 sq. mm - Material: copper with Tough Rubber - Length : 50 meter - Max Current carrying capacity: Not less than 400 Amps	Standard -	Storage Case -	Standard	Standard	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
3.	Earth clamps	Heavy duty earth clamp for welding : - Jaw opening up to 60 mm. - Zinc coated steel with copper plated jaws and copper mesh.	Standard -	Standard -	Standard	Standard	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
4.	Oxy - acetylene gas welding set equipment with hoses, Oxygen & Acetylene cylinders, regulator and	Oxy - acetylene gas welding set equipment consisting of : - Oxygen cylinder of standard industrial Capacity -	Standard -	Spark lighter - Tip cleaner - Cylinder key - Welding goggle - Suitable spanners - All Other Standard Accessories	Standard -	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt.	One Year

	other accessories.	Acetylene cylinder of standard Industrial Capacity - Double stage oxygen regulator - Double stage acetylene regulator - Oxygen & Acetylene Flashback arrestor for Cylinder and Torch - Twin hoses(Acetylene & Oxygen)10m Each - Welding torch with Nozzles - Twin Cylinders Trolley					Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
5.	Gas welding table with positioner with Fire Bricks 900 X 600 X 750 mm	Gas welding table with positioner with Fire Bricks - Size : 900 X 600 X 750 mm made with 40 x 40 x 4 mm angle iron and top tray covered with 5mm MS sheet, with positioner suitable for all weld positions. - Top tray covered with refractory bricks - Refer Specification as per Drawing No DWG-MM-01 Attached - Gas Welding Table	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

		Spray Painted						
6.	Welding torch tips of different sizes for Oxy- acetylene gas welding	Welding torch tips: - Welding torch tips of different sizes for Oxy- acetylene gas welding To fit nozzle no. 1, 2, & 3	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
7.	Spark lighter for Gas Welding	Spark Lighter for Gas Welding - Spark Lighter used for Gas Welding & Cutting - Made of Stainless steel	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
8.	Welding torches.	Welding Torch for Oxy-Acetylene with Nozzles no. 1, 2, & 3 - Material of Torch : Brass	Standard -	Standard -	Standard	Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP	One Year

							in Himachal Pradesh - Training as required by staff of Polytechnic	
9.	Flash back arrester (torch mounted)	Pair of Flash back arrester (Torch mounted) for Oxygen and Acetylene : - Material: Brass	Should be designed to arrest the flame and avoid the reverse flow of gases	Standard	Standard	Standard	Standard	One Year
10.	Flash back arrester (cylinder mounted)	Pair of Flash back arrester (cylinder mounted) for Oxygen and Acetylene Cylinder : - Working Pressure : 15 bar(Oxygen) & 1.5 bar(Acetylene) - Material: Brass	Flame arrestor - Non Return Valve - Temperature Sensitive Cut off Valve - Pressure Sensitive Cut off Valve - Gas flow direction to be indicated on each Flash back arrestor	Standard	Standard	Standard	Standard	One Year
11.	D.C Arc welding rectifiers set with all accessories	D.C Arc welding rectifiers set with all accessories - Open circuit voltage range : 60-100 V - Welding Current Range 50–400 A - Current @ 60% duty cycle: 400 A - Display of Current & Voltage : Digital	Forced air cooling type - Display of Current & Voltage Digital - Step less, smooth and infinitely variable current regulation. - One swivel front wheel and two	Copper Welding Cable with Tough Rubber Size: 50 SQ MM (50 Mtrs) -Suitable Welding Lugs for 50 SQ mm Copper Welding Cable - Welding Holder - Earth Clamp - Welder Face Shield - Welder Apron - Leather Gloves - All Other Standard Accessories	Standard	User/Operating Manual - Warranty Certificates	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

			rear wheel arrangement for easy manoeuvrability . - On/Off switch control, current control and current indicator provided on the front panel. - Single knob current control from the front panel or remote control unit. - Welding current adjustment and regulation through electromagnetic transducer possible for high current gouging applications.					
12.	Spot welding machine	Spot welding machine: - Rocker Arm Diameter : 38 - 60 mm - Foot Operated - Throat Clearance : 160-300mm - Types of Transformer Cooling : Air / Water - Output: 15 KVA - Spot Size : up	Heavy Machine Bracket should be provided on top of the frame for Rockering the upper arm Holder -Should be provided with T- Slotted Face Plate for both vertical	Standard	Spare Arms and Electrode Holder	User/Operating Manual Warranty Certificates	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	One Year

		to 6 mm - Rocker Arm Diameter : 30-55 mm - Electrode Holder Diameter : 18-25 MM - Length of Upper Electrode Holder : Minimum 200 MM - Length of Lower Electrode : Minimum 200 MM - Arms & Electrode Cooling : Water	and Horizontal Adjustment of lower arm				required by staff of Polytechnic	
13.	Oxygen, Acetylene Cylinders (Filled)	Oxygen Cylinder (Filled): - Capacity : 6-8.5 Cub. m - Type : Seamless - Pneumatic Leakage Test Pressure : Min. 120 Kg/Cm2 - Max Working Pressure @ 150deg C : Min. 16 Kg/Cm2 - Colour : Black Acetylene Cylinder(Filled) : - Capacity : 6-8.5 Cub. m - Type : Seamless - Pneumatic Leakage Test Pressure : Min. 120 Kg/Cm2 - Max Working Pressure @ 150deg C : Min. 16 Kg/Cm2 - Colour : Maroon	Standard	Cylinder Cap - Cylinder Key	Standard	User/Operating Manual - Warranty Certificates - Test Certificate for Pressure Testing	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

14.	Welding helmets with coloured glass	Welding Helmet : - Black Glasses, - both side plane glass with side shield	Suitable for all position MMA, MIG/MAG & TIG welding.	Standard -	Standard	Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
15.	Hammer- Chipping - 0.25 Kg	Hammer- Chipping - Helical Barrel spring handle - weight : 250gms - Material : drop forged steel, - Conforming to IS :4915 or its equivalent Standard.	Hammer- Chipping - Helical Barrel spring handle - weight : 250gms - Material : drop forged steel, - Conforming to IS :4915 or its equivalent Standard.	Dust protection and storage case	Standard	Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
16.	Arc welding glass - plain	Arc welding glass - Plain Glass - Suitable for welding. - Size: 108 mm x 82 mm x 3 mm. - Material : Made from clear glass. - Color : Plain - Conforming to ISI or equivalent	Standard	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	Two Year

		standard.				Providers	required by staff of Polytechnic	
17.	Arc welding glasses - single coloured	Arc welding glasses - single coloured glass - Colour: Black - Size: 108 mm x 82 mm x 3 mm minimum - DIN 11A & 12 A - Conforming to ISI or equivalent standard.	Standard	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
18.	Spark lighter	Spark lighter - material: SS body - Conforming to ISI or equivalent standard.	easy to use - light in weight	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
19.	Welding Goggles	Welding Goggles with Colour Glass - Material : Plastic moulded frame and black lens. - Type: Mesh cup - with black Colour glass 3	Fitted with mesh type net for lateral protection.	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) -	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP	Two Year

		or 4A DIN - Size : Standard - Conforming to ISI or equivalent standard				Contact detail of Local Service Providers	in Himachal Pradesh - Training as required by staff of Polytechnic	
20.	Gas welding Goggles (pair) - 100 mm	Gas welding Goggles (pair) - Material : Plastic moulded frame and black lens. - Type: Mesh cup - with black Colour glass 3 or 4A DIN - Size : 100 mm - Conforming to ISI or equivalent standard	Fitted with mesh type net for lateral protection. - Other Standard features	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
21.	Welding brush	Welding brush - suitable to clean welding spots. - 5 rows and 3 rows - Bristle Material : SS -Brush Size (in inch) = 11 - 15 -Bristle Length (in inch)= 3 - Bristle Stiffness = Hard - Conforming to ISI or equivalent Standard	Standard	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
22.	Earth clamp 600A	Earth clamp - made of zinc coated steel with copper plated jaws and suitable copper mesh -	Standard	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate - Operating Manual/User Manual	To be installed at Governmen t Polytechnic (Women),	Two Year

		Type: Crocodile Earth Clamp/ Ground Clamp - Jaw opening is up to 60mm - Amperage :600 A - Cable Size : 90-70 mm Sq. - Conforming to ISI or equivalent standard				(Wherever applicable) - Contact detail of Local Service Providers	Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
23.	Electrode holder- 600 A	Electrode holder- 600 A - Material : Brass or copper/ alloy - Amperage: 600A - Type: Insulated handle - Heat resistant proof - Conforming to ISI or equivalent standard.	suitable for holding the electrode securely in any position. -The welding cable attaches to the holder through the hollow insulated handle. - The design of the electrode holder permits quick and easy electrode exchange. - other Standard features	Standard	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
24.	Oxygen Gas Pressure Regulator	Oxygen Gas Pressure Regulator - Double stage Industrial Gas Regulators with Stainless steel	Standard	Standard	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever	To be installed at Government Polytechnic (Women), Rehan	Two Year

		diaphragm in first stage and Flexible rubber diaphragm in second stage for fine gas control. - Forged brass bonnet in first stage and die cast special alloy bonnet in second stage - Teflon moulded valve and stainless steel spindle in the valve assembly capsule in both stages for leak-proof performance. - Second stage plenum chamber volume is six times than first stage - Double protection through separate safety relief valves in both first and second stage, - Triple filter: one in inlet and two wire mesh in the valve assembly - Conforming to IS: 6901 or equivalent Standard.				applicable) - Contact detail of Local Service Providers	Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
25.	Acetylene Gas Pressure regulator	Acetylene Gas Pressure regulator:	To regulate and control working	Dust protection and storage cover/ case. -	Standard	Warranty Certificate -	To be installed at	Two Year

		- double stage type - Stainless steel diaphragm in first stage and flexible rubber diaphragm in second stage. - Forged brass bonnet in first stage and die cast special alloy bonnet in second - Plastic moulded valve and stainless steel spindle in the valve assembly - Safety valves in first and second stage. - Triple filter: one in inlet and two wire mesh in the valve assembly - Conforming to ISI or equivalent standard	pressure of acetylene gas during gas welding. - Second stage plenum chamber volume shall be six times than first stage to ensure stable flow characteristics. - Capsule in both stages for leak-proof performance. - Other Standard features	Other standard accessories		Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
26.	Welding hose - acetylene	Welding hose - acetylene - made from Thermoplastic Rubber - Diameter= 8mm - Length = 10 meter - color = Red / maroon - Lining: Natural and Synthetic Rubber Blend. - Reinforcement: High Tenacity	The lining and the cover of the hose shall be uniform in thickness, reasonably concentric and free from air blisters, porosity and splits.	Standard	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of	Two Year

		Synthetic yarn Braid - Cover: Natural and Synthetic Rubber Compound with Heat Weather, Abrasion and Ageing Properties. - Seamless tube of blend of natural synthetic rubber compound resistant to fuel acetylene - Plain or fluted cover of rubber for lasting performance under severe working conditions Conforming to IS: 447 or equivalent Standard.					Polytechnic	
27.	Welding hose - oxygen	Welding hose - oxygen - made from Thermoplastic Rubber - Diameter= 8mm - Length = 10 meter - color = Blue - Lining: Natural and Synthetic Rubber Blend. - Reinforcement: High Tenacity Synthetic yarn Braid - Cover: Natural and	The lining and the cover of the hose shall be uniform in thickness, reasonably concentric and free from air blisters, porosity and splits.	Standard	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year

		Synthetic Rubber Compound with Heat Weather, Abrasion and Ageing Properties. - Seamless tube resistant to fuel oxygen - Plain or fluted cover of rubber for lasting performance under severe working conditions - Conforming to IS: 447 or equivalent Standard.						
28.	Arc welding cables	Arc welding cables -Type: multi cored copper - Amperage = upto 600 A - Number of Core = multiple - Insulation Material = PVC - Length =45 meter - Conduction Material = Copper - Conforming to ISI or equivalent standard.	Standard	Standard	Standard	Warranty Certificate - Operating Manual/User Manual (Wherever applicable) - Contact detail of Local Service Providers	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Year
29.	Seam welding machine	Seam welding machine KVA-10 duty cycle 50% primary volts 415 frequency 50Hz primary Amps-25,secondary	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt.	One Year

		Amps-900					Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
30.	Portable Electrical Grinder	Portable Grinder Electric 100mm	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
31.	Portable welding set	Portable welding set single phase 220V, 200Amp.	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
32.	Chop Saw/ pipe cutting Machine.	Chop Saw/ pipe cutting Machine Cap.350mm .	Standard -	Standard -	Standard	User/Operating Manual - Warranty Certificate	To be installed at Government Polytechnic	One Year

							(Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
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Lot 7: Fitting Workshops Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Pillar Type Electric motorized Drilling machine of 20 mm Capacity	Pillar Type Drilling machine: - Drilling Capacity : 20mm Max - Chuck Capacity : 0-20 mm - Spindle Taper : Minimum MT-3 - Spindle Traverse : Minimum 100mm - Distance between Spindle and Table: Minimum 300mm - Distance between Spindle and Base : Minimum 500 mm - Table Working Surface Area : Minimum 200 x 200 mm - Swivel Table - Number of Spindle Speeds: at least 8, - Pillar	A Sturdy & heavy body made up of cast steel & having a solid pillar ,hardened & chrome plated/spray painted with a heavy base enough to withstand impact & load	Standard accessories - All the tools & keys required to operate the machine with attachments - Suitable Starter / DOL. Drill Sleeves 1-2, 2-3 and drill chuck with arbor and machine vice. Opening of jaw 150mm.	Standard	User/Operating Manual - List of Service Centres in India - Warranty Certificates	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

		Diameter: Minimum 57mm - Spindle Speed - between 115 rpm – 2060 rpm or Higher - Coolant System with Coolant Pump with tank. - Main Motor not less than 1HP - Operating Voltage: 440V, 3 Phase. - Suitable Starter with all safety gadgets. - Suitable capacity electric cable of minimum 5 meter length for connecting with 440V, 3 phase supply						
2.	Motorised Bench Grinder	Motorised Bench Grinder : - Grinding Wheel Diameter : Minimum 150mm - Double sided - Two wheels rough and smooth with Tool Base - No Load Speed : 1500-3600 rpm - Operating Voltage: 440 V , 3 phase - Motor Power : Minimum 1 HP - Suitable DOL Starter with all	Sealed and pre- lubrication Ball Bearings - Balance Motor for smooth operation - Adjustable spark detectors for safety, - Adjustable shatter-proof eye shields - Thick wheel guards with built in dust	All Standard Accessories and DOL Starter and diamond dresser	one set of rough & smooth grinding wheels suitable to the Grinder	User/Operati ng Manual - List of Service Centres in India - Warranty Certificate	To be supplied at designated ITI's in Himachal Pradesh - Training as required by staff of ITI	One Year

		safety gadgets. - Suitable capacity electric cable of minimum 5 meter length for connecting with 440V, 3 phase supply	chutes					
3.	Bench type Electric Motorized Drilling Machine of 20 mm capacity	Bench Drilling Machine : - Drilling Capacity: 20 mm - Chuck Capacity 1.5-20 mm - Minimum spindle travel :80 mm - Spindle taper: Solid - Minimum No. of spindle speed : 2 - Range of spindle speed:200-2500 rpm - Electric Motor: Minimum 0.5 H.P, 3 Phase - Suitable capacity electric cable of minimum 5 meter length for connecting with 440V, 3 phase supply	A Sturdy metallic body hardened & chrome plated/spray painted with a heavy base enough to withstand impact & load.	Standard accessories - All the tools & keys required to operate the machine with attachments. - Suitable Starter	Standard	User/ operating manual - Warranty certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
4.	V' Block 75 x 38 mm pair with Clamps	V Block Pair with Clamps - Length : 75 MM - Width : Minimum 38 MM - Width of Vee : Minimum 25 MM - Width of U shaped	Standard	Standard	Standard	Standard	To be delivered at Government Polytechnic (Women), Rehan Distt.	One Year

		Slot : Minimum 15 MM - Material : Tool Steel 50 to 60 HRC - One pair of Clamp					Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
5.	Depth micrometer 0-25 mm	Depth micrometer : - Measuring range : 0 to 25mm - Resolution : 0.01 mm - Accuracy: 0.01mm - Measuring rod clamp. - Carbide-tipped measuring rod - Ratchet stop for constant force - Rugged blow moulded hard case	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
6.	Dial gauge type 1 Gr. A (complete with clamping devices and with magnetic stand)	Dial gauge with clamping devices and Magnetic Stand : - Type 1 Gr. A - Maximum Reach : 145 mm - Indicator Range : 10 mm - Resolution : 0.01 mm - Accuracy: 0.013 mm - Clamping Force (N) : Minimum 600 N	Permanent magnet operation with ON/OFF control. - V-grooved base for secure mounting on cylindrical surfaces. - carbide contact point - The stem spindle should be made of high-strength quench-hardened stainless steel	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

			The arm should be mechanically locked in any position using the knob on the uprights - Magnetic Stand that uses a switchable permanent magnet for convenient mounting onto flat iron or steel					
7.	Granite surface plate with stand and cover Size : 450 x300mm	Granite surface plate with stand and cover: Adjuster: -Size : 450 x 300 X 40 MM - GRADE : A, accuracy is 0.005mm - Six level adjustable Dust proof Cover	Uniformity In Hardness - Precision Lapped Surface Finish - Vibration Absorbent. - Rust-Proof, Non-Corrosive. - Thermal Stability. - Wrap Resistant. - Low Porosity. - Non-Abrasive, Non-Magnetic	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
8.	Outside micrometer 0-25mm	Outside micrometer : - Range : 0 to 25 mm - L.C : 0.01 mm - Material : Stainless steel, chrome plated with carbide	Equipped with Ratchet Stop for Constant measuring force -Carbide measuring faces High accuracy	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt.	One Year

		Tips - Suitable case for storage	Interchangeable anvils.				Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
9.	Outside micrometer 25-50 mm	Outside micrometer : - Range : 25 to 50 mm - L.C. : 0.01 mm - Material : Stainless steel, chrome plated with carbide Tips - Suitable case for storage	Equipped with Ratchet Stop for Constant measuring force -Carbide measuring faces High accuracy Interchangeable anvils.	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
10.	Pipe cutting tool	Pipe cutting tool : - Pipe or Tube Diameter Capacity : 1/8-inch to 1-1/8-inch - Contact rollers ; Minimum 3 Nos. for stable cutting & reduced spiralling	Cuts copper, brass and aluminium tubing and thin-wall conduit Grooved rollers for dose-to-flare cuts - Enclosed feed screw	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
11.	Thread pitch gauge Metric	Thread pitch gauge : - Measurement System : Metric - Range (mm) 0.4-7	Each leaf is marked with thread	Standard	Standard	Standard	To be delivered at Government Polytechnic	One Year

		mm					(Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
12.	Filler gauge - 10 blades	Filler gauge - 10 blades Range : 0.05mm to 1.0 mm (Metric) (10 blades) Type : Leaf Design Material : stainless Steel with anti rust coating. Conforming to ISI or equivalent Standard	Thickness of blades should be engraved / marked on the every blade. - All the blades should be arranged in the increasing order. - Blades should be fold into metal case. - With locking clamp	Dust protection and storage case	Standard	Standard	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
13.	Taps and wrench set - 3 mm to 16mm	Taps and wrench set - set contains Taps and wrenches - Metric - Adjustable Tap wrench suitable for specified size. - suitable for size metric: 3- 16 mm, (fine and coarse) - tap: 3pcs of each type - Conforming to ISI or equivalent	All taps are etched with the imperial sizes for easy and fast finding. - Polished and coated - other Standard features - Robust in construction and positive in locking. -	Dust protection and contained in a metal case with vacuum molded inlay for easy storage and transportation as well as easy finding the correct size fast and efficiently. - Other Standard accessories	Standard	Standard	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

		standard.	Handles shall be in good alignment and Knurled - Precision machined taps provide clean, straight and easy threading					
14.	Adjustable pipe die set BSP with die	Adjustable pipe die set BSP with die - Die size 1/2", 3/4", 1" - Material: Alloy steel. - Ratchet head with two piece handle - Conforming to ISI or equivalent standard	Standard	Dust protection and storage cover/ case. - Other Standard accessories	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
15.	Tap and Die set - Wit Worth	Tap and Die set - Wit Worth - Tap and Die set suitable to cut BSW threads. - Material :High Speed Steel - suitable for size: : 5/16, 3/8, 5/8, 1/2, 7/16 Inch - Taps : 3pcs each type - Dies : 1 pcs each type - 1 x Tap Wrench - 1 x Die Stock Wrench -	All taps and dies are etched with the imperial sizes for easy and fast finding. -Polished and coated - Precision machined taps and dies - robust in construction and positive in locking. -	Adjustable Tap wrench suitable for specified size. - Die handle suitable for specified size with thumbscrew to hold components securely in place. - Dust protection and contained in a metal case for easy storage and transportation as well as	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

		Conforming to ISI or equivalent standard.	Handles shall be in good alignment and Knurled					
16.	Die set	Die set - Material :High Speed Steel - suitable for size: : 5, 6, 8, 10, 12 mm Metric (fine and coarse) - Dies : 1 pcs each type - 1 x Die Stock Wrench - Precision machined taps and dies. - Conforming to ISI or equivalent standard.	Die set suitable to cut Metric (fine and coarse) threads. - All die size shall be permanently marked for easy and fast finding. -Polished and coated - other Standard features	Die stock suitable for specified size with thumbscrew to hold components securely in place. - Handles shall be in good alignment and Knurled. - Dust protection and contained in a metal case with vacuum molded inlay for easy storage and transportation as well as easy finding the correct size fast and efficiently. - other Standard accessories	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
17.	Universal Vernier Calliper 150 mm	Universal Vernier Calliper - Range 0-150 mm with least count 0.02mm , Type -A - shall have engraved graduations both in mm and inches - Hardened stainless steel / alloy steel with satin chrome scale. - face angle of 14degree for easy reading - Conforming to IS: 3651 or equivalent Standard.	Thumb control with Locking Device. - Other standard features	Dust protection and storage case	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

18.	Combination set - 200 mm	Combination set - Blade Range : 200 mm - Graduation : 0.5 mm - Precision : 0.02 mm - Material : Stainless Steel. - Measuring heads: Square, Centre & Protractor - Conforming to ISI or equivalent standard.	Standard	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
19.	Vernier Bevel protector - 150 mm	Vernier Bevel protector - Range: 0-360° - Material: Hardened stainless steel - Includes Two Blades 150mm and 300mm, Least Count 5 Minutes - Conforming to Standard IS: 4239 or equivalent.	used for marking on the work pieces. - Accurately machined surface for precise readings - High angle gauge for accurate angle measurements of machines, moulds and jigs etc.	Dust protection and Storage Case. - With Magnifying glass and acute angle attachment.	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
20.	Vernier Bevel protector - 300 mm	Vernier Bevel protector - Range: 0-360° - Material: Hardened stainless steel - Includes Two Blades 150mm and 300mm, Least Count 5' Minutes, dial 10 - High angle	used for marking on the work pieces. - Accurately machined surface for precise readings	Dust protection and Storage Case. - With Magnifying glass and acute angle attachment.	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	One Year

		gauge for accurate angle measurements of machines, moulds and jigs etc. - Conforming to Standard IS: 4239 or equivalent.					Pradesh - Training as required by staff of Polytechnic	
21.	Vernier height gauge - 300 mm	Vernier height gauge - Range : 0-300 mm - Least count: 0.02 mm - Accuracy: ± 0.04 mm - Resolution : 0.02mm / .001" - Scale Adjustment : 15 mm - Slider Fine Feed : 4mm - Stain chrome finished scales for glare-free reading. - Reading the Vernier scales can be assisted by an optional magnifier. - Carbide-tipped scriber is provided. - Conforming to IS: 2921 or equivalent Standard.	Extra-large base for rigidity. - The main scale slides and clamps within the column for quick and convenient zero setting. - locking knobs are used both for the slider and fine adjustment clamps to make clamping easy.	Dust protection and Storage Case - Standard accessories	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
22.	Slip Gauge Set	Slip Gauge Set - Grade : workshop grade (grade 2) - Made of high quality steel, - Slightly rounded	heat treated and stress relieved for high stability and precision lapped for good	Wooden storage box for Gauge block sets. - other Standard accessories.	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan	One Year

		edges. - Each gauge block is marked with an identification number. - Gauge block hardness is 800 HV (64 HRC) for high wear resistance. - Block Per Set : 87 Pcs. - Set Includes : 9 Block ; 1.005-1.009 mm in Step of 0.001 mm 49 Block ; 1.01-1.49 mm in Step of 0.01 mm 19 Block ; 0.50-9.50 mm in Step of 0.50 mm 10 Block ; 10-100 mm in Step of 10 mm - Conforming to IS:2984 or equivalent Standard.	wringing properties				Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
23.	File Flat - Safe Edge 200 mm	File Flat - Safe Edge - Type : flat -safe edge - Length: 200 mm - Material: High Carbon Steel - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	Two Years

							Pradesh - Training as required by staff of Polytechnic	
24.	Hands File- Flat - second cut - 200 mm	Hands File- Flat - second cut - Type : Hands File- Flat - second cut - Length: 200 mm - Material: High Carbon Steel - Excellent Resistant to Corrosion - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Standard	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
25.	Tap Extractor set - 3 mm to 12 mm x 1.5 mm	Tap Extractor set - Material : HSS - Size : 3mm to 12mm x 1.5mm(easy Out) - Conforming to ISI or equivalent standard.	Standard	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

26.	Scraper flat - 150 mm	Scraper flat Type: Flat Blade length: 150 mm Material: High carbon steel Material of grip handle: wood Conforming to ISI or equivalent standard.	Standard	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
27.	Scraper half round - 150 mm	Scraper half round Type: Half round Blade length: 150 mm Material: High carbon steel Material of grip handle: wood Conforming to ISI or equivalent standard.	Standard	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
28.	Scraper triangular - 150 mm	Scraper triangular Type: Triangular Blade length: 150 mm Material: High carbon steel Material of grip	Standard	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact	To be supplied and installed at Government Polytechnic (Women),	Two Years

		handle: wood Conforming to ISI or equivalent standard.				detail of Local Service Providers	Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
29.	Telescope gauge - Set - 8 - 150 mm -6 pieces	Telescope gauge - Set - Material: Hardened tool steel - Set of 6 pcs. - Range : 8 - 150 mm - size : 8- 12.7mm, 12.7- 19mm, 19-32mm, 32-54mm, 54- 90mm, 90-150mm - Nickel-plated finished - The ends of both contact are head treated stainless steel and precision ground to a radius - Conforming to ISI or equivalent standard.	Double action rigid handle with self- centring feature for quick checking of holes, slots and recess up to 6 inch deep - Constant spring tension gives uniform contact pressure - Handles are rigidly attached to the contact plungers and are automatically self-centring	Dust protection and Storage Case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
30.	Straight Edge - 2 feet	Straight Edge - Suitable to check flatness and straightness of the job. - Material: Steel - size: 2 feet - Grade: workshop grade 1 or 2 - Heat	Standard	Dust protection and Storage Case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service	To be supplied and installed at Governmen t Polytechnic (Women), Rehan	Two Years

		treated and stabilized. - hardness: not less than 500HV - All Edges are Grounded with Straight Edge Precision Tolerance - Conforming to IS: 2220 or equivalent Standard				Providers	Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
31.	Machine Reamer parallel set	Machine Reamer parallel set Type: Machine Reamer parallel - helical flute size: 12 -16 mm set of 5 (12 mm, 13 mm, 14 mm, 15 mm, 16 mm) Flute : helical Material: stainless steel. Conforming to ISI or equivalent standard..	Standard	Dust protection and Storage Case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
32.	Angle plate 200x100x200 mm	Angle plate - Size : 200x100x200 mm - Material : Cast iron - Flatness and Squareness within .002" Per 6" for Machined finish and .001" per 6" for Ground finish - Conforming to IS-	Precision ground sides and Ends. - Heavy and sturdy Machined construction. - Other standard features	Complete set of Accessories. - Dust protection and storage cover/ case.	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	Two Years

		2554 or equivalent Standard					Pradesh - Training as required by staff of Polytechnic	
33.	Sine bar - 125 mm	Sine bar - Material : Alloy steel - Size: 125 mm - hardened, precision ground body with two precision ground cylinders fixed at the ends. - Hardness: 55-60 HRC. - Confirming to IS : 5359 or equivalent Standard.	Standard	Dust protection and storage cover/case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
34.	Angle Plate adjustable type - 200x100x200 mm	Angle plate - adjustable type - Size : 200x100x200 mm - Material : Cast iron - Range 45 Degree each way from Vertical. - 3 Machined "T" slots and precise ground Table Surface. - Swivel Base - Swivel Graduation 360 Degree. - Conforming to IS-2554 or equivalent Standard	Precision ground sides and Ends. - Heavy and sturdy Machined construction. - Locking action by 2 clamping screws on each end. - Other standard features	Complete set of Accessories. - Dust protection and storage cover/ case.	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

35.	Marking out table - 900X600X900 mm	Marking out table Size : 900X600 X 900 mm high Material : Gray Cast Iron With Stand to enable working height 900 mm Conforming to IS:7327(2003) or equivalent Standard	Standard	stand for marking table. - Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
36.	Lapping plate - 250x200 mm	Lapping plate Type: Lapping plate Grade 1. Size: 250mm x 200mm Material : cast iron. Top surface provided with 3x3 mm grooves at a pitch of 24- 28 mm. Conforming to ISI or equivalent standard..	Castings stress relieved to relieve internal stresses. - Hand scraped surface finish. Standard.	Dust protection and storage cover/case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
37.	Power Hacksaw M/c	Power Hacksaw M/c Hyd.300mm blade, Blade 500mm, Round 300mm, Square=19.5mm, 45 Degree, Cut	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt.	One Year

		Stroke 140mm motor 2HP, oil 5ltrs, Weight 4.5Qtl. With Coolant Pump.					Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
38.	Machine vice	Machine vice 100mm	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
39.	Latest complete hand tools kit(for general workshop)	Latest complete hand tools kit(for general workshop)	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
40.	Tap and Die set of left hand M6,M8,M10 and M12	Tap and Die set of left hand M6,M8,M10 and M12	Standard	Standard	Standard	Calibration certificate - User/Operating Manual -	To be delivered at Government Polytechnic	One Year

						Warranty Certificates	(Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
41.	Machine reammers dia 8- 12mm	Machine reammers dia 8-12mm	Standard	Standard	Standard	Calibration certificate - User/Operati ng Manual - Warranty Certificates	To be delivered at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
42.	Pulley puller jaw opening dia upto 150mm	Pulley puller jaw opening dia upto 150mm	Standard	Standard	Standard	Calibration certificate - User/Operati ng Manual - Warranty Certificates	To be delivered at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

43.	Chop Saw /Pipe cutting M/C Cap. 350mm	Chop Saw /Pipe cutting M/C Cap. 350mm	Standard	Standard	Standard	Calibration certificate - User/Operating Manual - Warranty Certificates	To be delivered at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
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Lot 8: General Workshops Common Hand Tools & Equipment's

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Anvil 50 Kgs with Stand	Anvil with Stand: - Made up of Solid cast steel hardened and tempered. - Single Horn Anvil With Curved Base Size/Working Area at least 12 Sq. Inches - Weight: 50 KGs - 45-60 Rockwell Hardness is required - Fine finish and corrosion free - Suitable and sturdy Anvil Stand	Standard	Standard	Standard	Hardness Test Certificate - Warranty Certificate	At the Government Polytechnic (Women), Rehan Distt. Kangra HP in HP	1 Year
2.	Chain Pulley Block of 3 ton capacity with tripod stand	Chain Pulley Block with compatible tripod stand: - Capacity :3 Ton Tripod Stand	Standard	Standard	Standard	User/Operating Manual - Test Certificate from	At the Government Polytechnic (Women), Rehan	3 Years

		Specifications : - Capacity to lift minimum 3 Ton of load - Minimum Height to Eye : 3000 mm - Minimum Leg Length : 3400 mm - Legs should be Adjustable for uneven level ground, shallow slopes and slight inclines. - Feet Should be suitable for hard and soft ground.				Competent Authority for Rated Load Capacity for Chain Pulley Block & tripod Stand. - List of Service Centres in India - Warranty Certificates	Distt. Kangra HP in HP	
3.	Drilling Machine with hammer action -13 mm capacity	Hand Held Portable Drilling Machine with hammer action : - Drilling Capacity :13mm max - Chuck Capacity 1.5–13mm - No Load Speed 0-2800 rpm - Impact Rate 0 - 45000 bpm -Two way Hammering/drilling mode selector switch - Auxiliary handle with depth stop - Operating Voltage 240V, 50Hz	Ergonomic design for easy handling - Double insulation for high safety	Keyed chuck - chuck Key - Other standard accessories	With one set of parallel shank twist drill HSS 4mm to 12mm in the range of 0.5mm-1 set	User/Operating Manual - List of Service Centres in India - Warranty Certificate	To be installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year

4.	Vibrometer	Vibro Meter : - Measurement Range : 1 to 55 mm/s(RMS) - Frequency Range : 10 Hz to 1000 Hz - Display : LCD - Battery Operated - Temp Range : 0 to 50 deg C	Standard	Batteries and standard accessories	Standard	User/Operating Manual - Warranty Certificates	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
5.	Swage block	Swage block with stand - Specification as per Drawing No DWG-MM-05 Attached - Material : Cast Iron	Stand Castings free from Blow Holes	Standard	Standard	Standard	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	One Year
6.	Engineer's Steel Rule -150 mm with Metric and British Scale Graduations	Engineer's Steel Rule -150 mm - Material: Stainless spring steel or equivalent. - Satin non glare finish -	Straight and rigid - one edge of the scale shall be straight while other edge shall be	Dust protection and storage cover / case, - Other standard accessories.	Standard	User/Operating Manual - Warranty Certificates	To be supplied and installed at Government Polytechnic (Women),	Two Years

		edged graduations for legible reading - Steel rule with mm and inch graduations as per IS Standard, - Length of Scale Greater than 150 mm - Readings from left to right - thickness of the rule shall be 0.8 mm minimum. - Conforming to IS: 1481 or equivalent Standard.	rounded with a hole. - Engraved Conversion Table				Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
7.	Engineer's Steel Rule -300 mm with Metric and British Scale Graduations	Engineer's Steel Rule -300 mm - Material: Stainless spring steel or equivalent. - Satin non glare finish - edged graduations for legible reading - Steel rule with mm and inch graduations as per IS Standard - Length of Scale Greater than 300 mm - Readings from left to right - thickness of the rule shall be 0.8 mm minimum. - Conforming to IS:	Straight and rigid - one edge of the scale shall be straight while other edge shall be rounded with a hole. - Engraved Conversion Table	Dust protection and storage cover / case, - Other standard accessories.	Standard	User/Operating Manual - Warranty Certificates	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		1481 or equivalent Standard.						
8.	Hand Brush	Hand Brush - Block Size: 8-1/2" - Block Type: Wood - Conforming to ISI or equivalent standard..	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
9.	Measuring Tape - 2 m	Measuring Tape - Shall be able to measure length up to 2 meter. - Length measure shall be made from suitable steels or stainless steel - Measuring tape with mm and inch graduations as per IS Standard, with graduations of 1x 64, 1x32, 1x16 inches on top edge and 1/2 mm, 1/1 mm graduations in the bottom edge. Convenient press	when stretched on a plane surface, the edges should arc practically straight and parallel. - Graduated scales shall be clear, regular, indelible, and carried out in such a way that reading is definite, easy and unambiguous. - the zero end tape measures	portable case with provision for hanging of tape	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		and release side lock with Belt clip. - Conforming to IS:1269 or equivalent Standard	shall be provided with a ring or other device for facilitating withdrawal. - Compact contoured case design for easy handling & comfort in use					
10.	Pocker	Pocker Material: steel Hardened and tempered. size: 150 mm Handle : pvc/ wood Conforming to ISI or equivalent standard..	Standard	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
11.	Cleaning brush	Cleaning brush - 1" Cleaning Brush - Hardwood Handle - Feathered, Crimped Nylon Bristles black or grey, semi-stiff bristles - Conforming to IS: 7477 or equivalent	Bristles used shall be properly straightened, cleaned, freed from adulterants. - Other Standard features	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	Two Years

		Standard.					Pradesh - Training as required by staff of Polytechnic	
12.	Magnifying Glass	Magnifying Glass - circular hand held type magnifier having magnification of 10 x and with clear aperture of 75 mm - Material : Glass and Plastic - Handle Length = 5 to 6 Inches - Conforming to IS: 5148 or equivalent Standard.	Robust design and construction - other Standard features	dust protection and storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
13.	Rubber gloves - Pair	Rubber gloves - Pair Material: Rubber Size: Medium Reusable Textured for additional grip. Conforming to ISI or equivalent standard..	Non-Slip Grip. - Comfortable to wear. - Lightweight. - Other standard features.	dust protection and storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
14.	Steel wire Brush with wooden	Steel wire Brush with wooden	Bristles used shall be	Standard	Standard	Warranty Certificate	To be supplied and	Two Years

	handle	handle - Steel wire Brush: 50mmx150mm, 5- Row minimum - Base material: Wood - black or grey, semi-stiff bristles - galvanized iron wire of 0.45+/- 0.05mm diameter. - Conforming to IS: 7477 Standard or equivalent .	properly straightened, cleaned, freed from adulterants.			Operating Manual/ user Manual, - Contact detail of Local Service Providers	installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
15.	Tweezers - 100 mm	Tweezers - Material : Stainless Steel - Size: 100 mm , straight tip - High Precision Fine Tip Symmetry and Balance - Polished Tip Edges – Non- Scratch, Anti-Glare - anti Magnetic - Conforming to ISI or equivalent standard.	Good Resistance to Most Chemicals	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
16.	Calliper hermaphrodite - Spring joint Type- 150 mm	Calliper hermaphrodite - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened- tempered and Polished natural	used to draw lines parallel to an edge and to layout the center of round stock. - any desired tension can be adjusted	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service	To be supplied and installed at Governmen t Polytechnic (Women), Rehan	Two Years

		steel finish - One calliper leg and second leg with an adjustment scriber point. - with adjustable hardened point. - Conforming to Standard IS 4189 or equivalent	with fine adjustment screw - Accurately ground points. Standard			Providers	Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
17.	Calliper Inside - Spring joint Type - 150 mm	Calliper Inside - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - Quick split nut adjustment - Conforming to Standard IS 3209 or equivalent.	Accurately ground points. - Adjustment screw centrally located - legs are well balanced with uniform tension - Other Standard features	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
18.	Calliper Outside - Spring joint Type - 150 mm	Calliper Outside - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - Quick split nut adjustment - Conforming to	Accurately ground points. - Adjustment screw centrally located - legs are well balanced with uniform tension - Other standard features	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh -	Two Years

		Standard IS 3209 or equivalent.					Training as required by staff of Polytechnic	
19.	Calliper - odd leg - Spring joint Type - 150 mm	Calliper - odd leg - Range : 0-150 mm - Spring joint type - Made of high grade steel, Hardened-tempered and Polished natural steel finish - Conforming to Standard IS 4189 or equivalent	used for draing lines parallel to an edge and to layout the center of round. - One caliper leg and second leg with an adjustment scriber point. - Quick split nut adjustment - Accurately ground points. - Adjustment screw centrally located; legs are well balanced with uniform tension stock. - Other Standard features	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
20.	Divider - Spring Joint Type - 150 mm	Divider - Spring Joint Type - Made of high grade polished steel. - Size:150mm, spring joint type -Spring is hardened & tempered. - with fine adjustment screw. -	Legs well balanced & uniform tension - Shall be sharpened, hardened, tempered, points. - other Standard features	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	Two Years

		Conforming to IS :3206 or equivalent Standard					Pradesh - Training as required by staff of Polytechnic	
21.	Divider - Spring Joint Type - 200mm	Divider - Spring Joint Type - Made of high grade polished steel. - Size:200 mm, spring joint type - Spring is hardened & tempered. - with fine adjustment screw. - Conforming to IS :3206 or equivalent Standard.	Legs well balanced & uniform tension - Shall be sharpened, hardened, tempered, points. - other Standard features	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
22.	Scriber	Scriber - Length: 150 mm x 3 mm - Type: straight, - Material: made from steel or alloy steel. - Tips made from either tungsten carbide, hardened steel, tool steel or steel - knurled surface to improve grip and prevent slipping in the user's hand. - Conforming to IS: 12428 or equivalent	Standard	Dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		Standard.						
23.	Wire Cutter and Stripper - 150 mm	Wire Cutter and Stripper - size: 150 mm/ 6" - Material: Stainless steel - Insulated handle - Heavy duty construction - Self-Adjusting with cushion handle grip - Conforming to IS: 5087 or equivalent. Standard.	Resistant to rust	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
24.	Chisel cold -flat- 10 x150 mm	Chisel cold - Type: Flat - Made from high carbon steel - Dimensions: 10x150 mm - Conforming to IS: 402 or its equivalent Standard.	Proper hardened and tempered - Chisel shall be forged to shape in one piece - the body and ground portion of the chisel shall be given a suitable anti - corrosive treatment. - Other Standard features	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
25.	Hacksaw Frame Fixed Type - 300 mm	Hacksaw Frame Fixed Type - Size= 300 mm - frame made from mild	The blade locating slots shall be reasonably	Large split leather Hacksaw Cover. - Safety Strap.	Standard	Warranty Certificate Operating Manual/	To be supplied and installed at Government	Two Years

		steel. - Thickness of Frame 5mm or 6mm - Wooden Handle for comfortable grip. - hacksaw frames with blade. - Conforming to IS:11828 or equivalent Standard.	centred so that, when assembled with the blade, the frame and blade lie in the same plane. - Quick easy blade change and tension system - Other Standard features			user Manual, - Contact detail of Local Service Providers	t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
26.	Measuring Tape - 5 m	Measuring Tape - Shall be able to measure length up to 5 meter. - Length measure shall be made from suitable steels or stainless steel - Measuring tape with mm and inch graduations as per IS Standard, with graduations of 1x 64, 1x32, 1x16 inches on top edge and 1/2 mm, 1/1 mm graduations in the bottom edge. - Convenient press and release side lock with Belt clip. - Conforming to IS:1269 or equivalent	when stretched on a plane surface, the edges arc practically straight and parallel. - Graduated scales shall be clear, regular, indelible, and carried out in such a way that reading is definite, easy and unambiguous. - the zero end tape measures shall be provided with a ring or other device for facilitating	portable case with provision for hanging of tape	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		Standard	withdrawal. - Compact contoured case design for easy handling & comfort in use					
27.	Brush Steel Wire	Brush Steel Wire - Size :150 x 50 mm, 5-Row - Material : Steel - galvanized iron wire of 0.45+/- 0.05mm diameter - Conforming to IS: 7477 Standard or equivalent	Standard	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
28.	Chisel cold - flat - 20x150 mm	Chisel cold - Type: Flat - Made from high carbon steel - Dimensions: 20x150 mm - Conforming to IS: 402 or equivalent standard.	Proper hardened and tempered - Chisel shall be forged to shape in one piece - the body and ground portion of the chisel shall be given a suitable anti - corrosive treatment. - Other Standard features	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

29.	Chisel firmer - 6x200 mm	Chisel firmer - Type : Chisel firmer - Dimension : 6 mm X 200 mm - Material : carbon or alloy steel - Cutting edge Hardness : 550HV to 650HV - Head Hardness: 345HV to 450HV. - Handle made up of wood. - Conforming to IS: 402 or equivalent standard	Proper hardened and tempered - Chisel shall be forged to shape in one piece - the body and ground portion of the chisel shall be given a suitable anti - corrosive treatment. - Other Standard features	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
30.	File card	File card - Suitable to clean debris and material build up from metal files and rasp teeth. - Type : double sided brush - size: 3" x5" - Bristle Material: brass or steel wire of Standard size - with wooden handle Length=250mm - Conforming to ISI or equivalent Standard	Standard	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
31.	Number punch Set	Number punch Set. - characters Size : 3mm - Length of punch= 85 mm - Made from high	Standard	storage case	Standard	Warranty Certificate Operating Manual/ user Manual,	To be supplied and installed at Government	Two Years

		quality Carbon Steel. - Induction hardened to give a Solid Impression. - number punch set includes: 1. Hindu-Arabic Numerals-Numbers consist of 9 Stamps 0 - 8, No. 6 is inverted to make No. 9. 2. Roman Numerals and Arrows- consist of 10 Stamps I - X and → - Conforming to IS: 6864 or equivalent Standard.				- Contact detail of Local Service Providers	t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
32.	Letter Punch set - 5 mm	Letter Punch set - characters Size : 5 mm - Length of punch= 85 mm - Made from high quality Carbon Steel. - Induction hardened to give a Solid Impression. - Letter Punch set includes: Capital letters consist of 27 Stamps A- Z, &. clear characters - Conforming to IS: 6864 or equivalent Standard.	Standard	storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

33.	Mortise Chisel	Mortise Chisel Material : high grade Steel, hardened to Rockwell 60-62, cryogenically treated and double tempered. Length = 11" (1/2"). The handle is made of dark stained and waxed beech wood with steel ferrule and hoop. Conforming to IS: 402 or equivalent standard.	chisel edges are square, and parallel along the length. - The body and ground portion of the chisel shall be given a suitable anti-corrosive materials	storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
34.	Oil Can - 250 ml	Oil Can - made from high quality alloy steel - Capacity: 250 ml - Nozzle is steel & chrome - Pressure Feed System - conforming to ISI standard or equivalent standard	Standard	Dust and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
35.	Hammer Ball Pein - 0.22 Kg	Hammer Ball Pein - Type: Ball pein - weight : 220 gms - Material: Drop	The eye shall be well-shaped and reasonably central, and	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/	To be supplied and installed at Government	Two Years

		forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - hammer heads forged/stamped in one piece. - Conforming to IS: 841 Standard or equivalent.	shall be drifted from both sides to leave a central waist. - Other Standard features			user Manual, - Contact detail of Local Service Providers	t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
36.	Hacksaw Frame Adjustable Type - upto 300 mm	Hacksaw Frame Adjustable Type - Adjustable Type - Size : up to 300 mm - frame made from chrome plated steel of rectangular cross section of suitable thickness . -with pistol grip plastic handle. - hacksaw frames with blade. - Conforming to IS:11828 or	The blade locating slots shall be reasonably centred so that, when assembled with the blade, the frame and blade lie in the same plane. - Quick easy blade change and tension system - Other Standard	Large split Hacksaw Cover. - Safety Strap.	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		equivalent Standard.	features					
37.	Hand Vice - 37 mm	Hand Vice - Hand vice - 37 mm jaw type - Hardness for jaws=400 to 500HV. - Hardness for spring =450 to 550HV. - material as specified in IS 7958 accordingly or Equivalent - Conforming to IS 7958 or equivalent.	Non working surface should be painted. - Other Standard features	Dust protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
38.	Pliers long nose - 150 mm	Pliers long nose Size:150mm Material: high grade Steel, forged and differentially heat treated Fully polished head or Black phosphated and bright polished head. Hardness of jaws shall be 350 to 550 HVA Fully insulated Quality plastic material sleeves Machined and heat treated jaws. Able to hold very thin wires and cuts fine wires with	Standard	Dust Protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		ease. Conforming to IS Standard or equivalent.						
39.	Try Square - 150 mm	Try Square - Length : 150 mm Blade - Stock : cast iron - Blade: stainless steel - Engraved Graduations: in metric & inches. - have accurate right angles on the inside and outside - Conforming to ISI or equivalent standard.	Both the blades are accurately ground which ensures Straightness and Parallelism. - Excellent resistance to corrosion	Dust and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
40.	Pliers round nose - 100 mm	Pliers round nose Size:100mm Material: high grade Steel, forged and differentially heat treated Fully polished head or Black phosphated and bright polished head. Hardness of jaws shall be 350 to 550 HVA Fully insulated Quality plastic material sleeves Machined and heat treated jaws. Able to hold very thin wires and	Standard	Dust and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		cuts fine wires with ease. Conforming to IS Standard or equivalent.						
41.	Pliers side cutting - 150 mm	Pliers side cutting Type : Insulated side cutting pliers Size: 150 mm Material : high grade Steel, Forged and differentially heat treated Standard Conforming to IS 4378 or equivalent Standard.	Diagonal cutting edges, precision matched to optimum angle ensure long life for cutting hard and soft wires. - Cutting edges are sharp and precision machined to appropriate angle to cut thick and thin wires neatly with ease - Fully insulated with quality plastic material sleeves ensures safe electrical working. - It has excellent wire cutting ability for soft and hard wires. Standard	Dust and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
42.	Prick punch - 100 mm	Prick punch - size: 10 mm Dia. x 100 mm length - made from high grade Chrome steel	Provided with appropriate surface protection for rust prevention.	Dust protection and storage case	Standard	Warranty Certificate Operating Manual/ user Manual,	To be supplied and installed at Government	Two Years

		,forged and accurately machined. - angle of point= 30° - working end shall have a hardness of 545 to 655 HV. - Deep knurling on the body - Conforming to IS: 7177 or equivalent standard.	- Other Standard features			- Contact detail of Local Service Providers	t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
43.	Centre Punch - 10x100 mm	Centre Punch - size: 10 mm Dia. x 100 mm length - made from high grade Chrome steel ,forged and machined. - working end hardness of 545 to 655 HV. - Conforming to IS: 7177 or equivalent standard	Deep knurling on the body for firm grip. - Other Standard features	Dust protection and storage cover. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
44.	Plier combination - 150 mm	Plier combination Type: Insulated combination pliers Size: 150 mm Material: high grade Steel, forged and differentially heat treated to give best	Fully insulated with quality plastic material sleeves ensures safe electrical working. - should have excellent wire cutting ability	Dust protection and storage cover. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government t Polytechnic (Women), Rehan Distt. Kangra HP	Two Years

		performance. With fully polished head or Black phosphated and bright polished head. Standard Conforming to IS 6149-1984 Grade II or equivalent.	for soft and hard wires. - Other Standard features				in Himachal Pradesh - Training as required by staff of Polytechnic	
45.	Screw extractor	Screw extractor Suitable to Remove damaged screws quickly and easily. Made from high quality HSS , Screw extractor sizes: 1 to 8 Conforming to ISI or equivalent standard.	Standard	Dust Protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
46.	Drill twist set - 3-12 mm	Drill twist set - 3-12 mm - Type : Drill twist straight shank - set includes : 3 mm to 12 mm (various sizes increased by 0.5 mm) - Material : High speed steel. - Conforming to ISI or equivalent standard..	well finished, sharpened, hardened and with appropriate tolerance. - Each drill should be covered with rust proofing material - Standard features	Dust protection and storage cover - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	Two Years

							required by staff of Polytechnic	
47.	Sleeve drill Morse set	Sleeve drill Morse set - Made from high quality alloy steel - Hardened and tempered, precision ground inside and outside to high concentricity. - set includes: No. 0 - 1, 1 - 2, 2 - 3, 3 - 4, 4 - 5 - Conforming to ISI or equivalent standard.	Standard	Dust Protection and Storage Cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
48.	Socket Spanner set with complete accessories	Socket Spanner set with complete accessories Set of 28 pieces upto 32 mm Set includes: - Sockets: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22,23,24,26,27,28, 29,30,32 - Adapter - Hex 1/4 inch x SQ, - Adapter Torx: T20, T25, T30, T40, A733 - T-handle, - Extension Bar 2", 4" - Universal Joint - Nut Spinner Flexible, - Speed	Accurately hardened and tempered to withstand higher torque and enable high wear resistance - T-handle offers a higher torque for a more comfortable and effective fastening, - easily access the nuts and bolts located in hard-to-reach areas with the help of	Packed in Powder Coated Carrying Case - Complete set of accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		handle - Ratchet Handle - made of chrome vanadium steel - Conforming to ISI or equivalent standard.	the extension bars. - Other standard features.					
49.	Taper shank drills - Ø 12 mm to Ø 20 mm in steps of 1 mm	Taper shank drills - set ranging from Ø 12 mm to Ø 20 mm in steps of 1 mm of various sizes - Material : HSS - Type Taper Shank - Conforming to ISI or equivalent standard.	highly resistant to rust, - fast in performance, sustainable and can be used for versatile applications	Dust protection and contained in a metal case - Other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
50.	Allen Key set - Metric	Allen key set - metric - Size: 3 to 12 mm - Ball End Hex Key Set-long type. - Material : high grade alloy steel - Conforming to IS 3082-1988 or equivalent	Heat Treated 48-52 HRC - hardened and tempered to withstand higher torque and enable high wear resistance. - Other standard features.	Complete set of Accessories. - Dust protection and storage cover/ case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

51.	Dot Punch - 10x100 mm	Dot Punch - 10x100 mm - size: length 100mm ,diameter 10mm - Long conical -shaped point, grounded - Angle of Point : 60° - having knurled body - Material : HCS or alloy steel - One-piece construction forged for strength - anti-rust treatment. - Conforming to IS:7177 or equivalent.	Hardened, quenched and tempered for long life and durability. - Other Standard features	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
52.	Level bottle (sprit) - 150 ml.	Level bottle (sprit) A standard Level bottle (sprit) 150 ml. Level Accuracy : 0.5 mm/m Sturdy shock proof vials accurate to 0.5mm per meter. 2 vertical and 1 horizontal vial with rubber anti slip end caps. Conforming to Standard IS: 1632,1931 and 5706 or equivalent.	Standard	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
53.	Wire gauge	Wire gauge - Material : Stainless steel - Type: British and Metric - shape:	Permanently deep embossed graduations. - anti rust	Dust protection and Storage Case	Standard	Warranty Certificate Operating Manual/	To be supplied and installed at	Two Years

		round - Range : up to 36 - Embossed - Conforming to ISI or equivalent standard.	protection			user Manual, - Contact detail of Local Service Providers	Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
54.	Wrench Adjustable - 150 mm	Wrench Adjustable -Type : Heavy duty - Length: 150 mm - Manufactured from Chrome Vanadium steel with a fully polished satin finish - Hardness: frame handle and jaws =40-48 HRC worm = 30- 45 HRC worm pin = 25-30 HRC - Left hand thumb screw movement - Conforming to IS: 6149 or equivalent Standard.	Precision marked scale indicate correct jaw opening. - Ergonomically shaped handle with hanging hole	Dust protection and storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
55.	Hammer cross pein - 0.25 Kg	Hammer cross pein - Type: cross pein - weight : 250 gms - Material : Drop forged steel - Partially Hardened	hammer heads shall be cleanly forged and/or stamped in one piece. - The eye shall be well-	Dust protection and storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact	To be supplied and installed at Government Polytechnic (Women),	Two Years

		upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - Conforming to IS: 841 Standard or equivalent	shaped and reasonably central, and shall be drifted from both sides to leave a central waist.			detail of Local Service Providers	Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
56.	Hammer Ball Pein - 0.45 Kg	Hammer Ball Pein - Type: Ball pein - weight : 450 gms - Material: Drop forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - hammer heads	The eye shall be well-shaped and reasonably central, and shall be drifted from both sides to leave a central waist. - Other Standard features	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		forged/stamped in one piece. - Conforming to IS: 841 Standard or equivalent.						
57.	Hammer cross pein - 0.5 Kg	Hammer cross pein - Type: cross pein - weight : 500 gms - Material : Drop forged steel - Partially Hardened upto 55 - 58 HRC on Striking Surfaces. - Phosphated and Painted to Provide Antirusting Properties. - Handles: hammers shall be supplied wooden handle of appropriate size Fixed Firmly to Hammer Head. - Conforming to IS: 841 Standard or equivalent.	hammer heads shall be cleanly forged and/or stamped in one piece. - The eye shall be well-shaped and reasonably central, and shall be drifted from both sides to leave a central waist	Dust protection and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
58.	File flat- second cut 150 mm	File flat- second cut - Type : flat, second cut - Length: 150 mm - Material: High Carbon Steel - wooden handle - Conforming to IS:1931 or equivalent	taper slightly towards point in width. - Excellent Resistant to Corrosion	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt.	Two Years

		Standard					Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
59.	File Flat - Bastard 200 mm	File Flat - Bastard - Type : flat, bastard - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
60.	File Flat - Bastard 250 mm	File Flat - Bastard - Type : flat, Bastard - Length: 250 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

61.	File Flat - Bastard 300 mm	File Flat - Bastard - Type : flat, Bastard - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
62.	File Flat - Bastard 350 mm	File Flat - Bastard - Type : flat, Bastard - Length: 350 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
63.	File half round - second cut - 200 mm	File half round - second cut - Type : half round - second cut - Length: 200 mm - Material: High Carbon Steel -	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact	To be supplied and installed at Government Polytechnic (Women),	Two Years

		taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard				detail of Local Service Providers	Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
64.	File half round- Rasp- 200 mm	File half round- Rasp - Type : half round , rasp - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
65.	File round- second cut - 200 mm	File round- second cut - Type: Round second cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - Excellent Resistant to Corrosion- with wooden handle - Conforming to	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by	Two Years

		IS:1931 or equivalent Standard					staff of Polytechnic	
66.	File Round-Fine - 150 mm	File Round-Fine - Type :Round, Fine Double Cut - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
67.	File square - second cut - 200 mm	File square - second cut - Type : Square- second cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
68.	File square - second cut - 300 mm	File square - second cut - Type : Square- second cut	Excellent Resistant to Corrosion -	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating	To be supplied and installed at	Two Years

		- Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Other Standard features			Manual/ user Manual, - Contact detail of Local Service Providers	Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
69.	File triangular - smooth - 200 mm	File triangular - smooth - Type : Triangular, smooth - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
70.	File Triangular-second cut - 150 mm	File Triangular-second cut - Type : Triangular- second cut - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle -	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	Two Years

		Conforming to IS:1931 or equivalent Standard					Pradesh - Training as required by staff of Polytechnic	
71.	File feather edge - smooth - 150 mm	File feather edge - smooth - Type : feather edge, smooth - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
72.	File Flat - rough - 300 mm	File Flat - rough - Type : Flat - rough - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
73.	File Flat - smooth - 250 mm	File Flat - smooth - Type : Flat -	Excellent Resistant to	Dust protection and storage cover - Other	Standard	Warranty Certificate	To be supplied and	Two Years

		Smooth - Length: 250 mm - Material: High Carbon Steel - Excellent Resistant to Corrosion - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Corrosion - Other Standard features	standard accessories		Operating Manual/ user Manual, - Contact detail of Local Service Providers	installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
74.	File -Flat -Rough double cut - 200 mm	File -Flat -Rough double cut - Type : Flat -Rough, double cut - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
75.	File -Half Round - Bastard - 300 mm	File -Half Round - Bastard - Type : half round , bastard - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service	To be supplied and installed at Government Polytechnic (Women), Rehan	Two Years

		width. - Excellent Resistant to Corrosion - with wooden handle - Conforming to IS:1931 or equivalent Standard				Providers	Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
76.	File knife edge - smooth - 150 mm	File knife edge - smooth - Type : knife edge, smooth - Length: 150 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
77.	File- Square - bastard - 300 mm	File- Square - bastard - Type : Square- bastard - Length: 300 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by	Two Years

		Standard					staff of Polytechnic	
78.	File- Square - Smooth - 200 mm	File- Square - Smooth - Type : Square- Smooth - Length: 200 mm - Material: High Carbon Steel - taper slightly towards point in width. - with wooden handle - Conforming to IS:1931 or equivalent Standard	Excellent Resistant to Corrosion - Other Standard features	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
79.	Spanner Adjustable - 350 mm	Spanner Adjustable Type: Pipe wrench. size : 350 mm Material : movable jaw : wrought steel Frame : Malleable cast iron. spring : steel Adjustable nut and hinge : Suitable carbon steel. Phosphate plated finish. Conforming to IS 4003 or equivalent.	Machined, Hardened and tempered to give long trouble free service. - Provide with appropriate surface protection for rust prevention. - Adjustable Nut should be knurled for better rotation.	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
80.	C -Clamp - 150 mm	C -Clamp - 150 mm - Nominal Size: 150 mm - Material : drop forged from	Oversized T handle for extra torque. - Other Standard	Dust protection and storage cover - Other standard accessories	Standard	Warranty Certificate Operating Manual/	To be supplied and installed at Government	Two Years

		high grade steel. - All parts fully heat treated - Black phosphated coating - Conforming to IS 9181 (1988) or equivalent Standard.	features			user Manual, - Contact detail of Local Service Providers	t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
81.	Diamond dresser with holder	Diamond dresser with holder - Material: Steel - Diameter 6mm - diamond carat size: 0 .75 / 1.0 - point type: single type. For holder: - size: 70x70x50 mm - Conforming to IS Standard or equivalent.	Rigid structure - Impact proof - Mechanically strong - Excellent finish - Easy holding of the diamond dresser - Hardened & ground - Other standard features.	Dust protection and storage cover - other standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
82.	DE Spanner set - 6- 32 mm	DE Spanner set - set contains 12 pcs of 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm. - Material: made from drop forged steel - Machined,	Standard	Dust protection and storage case(metal)	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh -	Two Years

		Hardened and tempered - Provided with appropriate surface protection for rust prevention. - Conforming to IS:2028 or equivalent standard.					Training as required by staff of Polytechnic	
83.	Centre drill set	Centre drill set - Set of : A3, A4 & A5 - Material : material HSS drill bits TIN coated - Hardness: 760HV-900HV - Cutting : Right. - Conforming to IS 6708 or equivalent Standard	Standard	Dust protection and storage case(metal)	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
84.	Safety Belt	Safety Belt Type : Safety Harness Belt Length 1.8 mtr Webbing : Polyester Webbing Minimum Tensile load of 19.6 KN (2000 Kg.) Dimension (D x W x H) 32cmx26cmx20cm	Rugged construction other standard feature.	Dust protection and storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh -	Two Years

		Material: High quality polyester with strong grip SPRING HOOK should be attached to safety belt. Conforming to IS 3521 or equivalent standard.					Training as required by staff of Polytechnic	
85.	Firemen Axe	Firemen Axe - Material: Vulcanized rubber insulated handle - axe made from forged carbon steel. - Size : 440 mm length. - Color : Handle black, axe chrome plated silver. - Conforming to IS or equivalent.	Tested for 20000 volts - non slip grip, - bright finish handle.	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
86.	DE Ring Spanner Set - 6-32 mm	DE Ring Spanner Set - 6-32 mm - Drop forged from high grade Chrome - Vanadium steel. - Heat treated - Set of 12 of size: 6mm to 32mm. - Set includes (metric):6x7, 8x9, 10x11, 12x13, 14x15, 16x17,	Provide with appropriate surface protection for rust prevention. - Other standard features.	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as	Two Years

		18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm. - Conforming to IS:2029 or equivalent Standard.					required by staff of Polytechnic	
87.	Electric Stove melting solder	Electric Stove melting solder - Standard size - Rating Power: 150W - Temperature Range: 200-480 degree Celsius - Melting Time: 8 minutes - Max Solder Weight: 500 gram - Solder Pot Size: 50mm diameter - Conforming to ISI or equivalent standard.	Closed-loop sensor controls temperature, zero triggering without polluting the operation voltage. - Adopts anti-erosion and heart resistant alloy materials, long lifetime, suitable for lead free applications. - Small capacity design, more suitable for small and medium-sized connector. - Other Standard features	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
88.	File -Swiss type needle- set of 12	File -Swiss type needle- set - Set of 12, Length = 150 mm - File Type : Swiss type needle -	Excellent Resistant to Corrosion - Other Standard feature	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual,	To be supplied and installed at Government	Two Years

		File Types Included Barrette; Crossing; Equalling; Flat; Half Round; Knife; Round; Round Edge Joint; Slitting; Square; Three Square - Material: High Carbon Steel - with wooden handle - Conforming to IS:1931 or equivalent Standard				- Contact detail of Local Service Providers	t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
89.	Scriber with universal scribing block	Scriber with universal scribing block - Base size - 74 x 76mm. - Pillar Height - 300mm/ 12" - Scriber diameter - 4mm - Hardened and tempered steel base, ground on one end and bottom face. - Vee groove for locating on cylindrical work pieces. - Retractable locating pins - Radial grooves in the side - Knurled thumb screw in rocker for extra	Standard	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		fine adjustment - Conforming to ISI or equivalent standard.						
90.	Bench Vice - 125 mm	Bench Vice - size: 125 mm - Type: heavy duty , Fixed base - Material : grey cast iron - Hardened Carbon steel jaws serrated for non slip grip. - Forged tommy bar along with the steel main screw - Hardness: 445 to 596 HV. - Conforming to IS: 2586 or equivalent standard.	All steel construction to withstand rugged use and hammering. - large anvil built for shaping and fabrication work. - Integrated anvil for shaping and beating - Heavy duty sliding jaw and large diameter screw - Spindle forged with	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
91.	Bench Vice - 300 mm	Bench Vice - size: 300 mm - Type: heavy duty , Fixed base - Material : grey cast iron - Hardened Carbon steel jaws serrated for non slip grip. - Forged tommy bar along with the steel main screw - Hardness: 445 to 596 HV. - Conforming to IS: 2586 or equivalent	All steel construction to withstand rugged use and hammering. - large anvil built for shaping and fabrication work. - Integrated anvil for shaping and beating - Heavy duty sliding jaw and large diameter screw	Standard	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years

		standard.	- Spindle forged with square threads for better clamping strength. - Other standard features.					
92.	Pipe vice to grip up to 77 mm	Pipe vice To grip up to 77 mm Size : up to 77 mm Steel construction. Hardness-The hardness of the jaw plates shall be 40 to 45 HRC Conforming to ISI or equivalent standard.	Standard	Dust protection and storage cover/ case. - Other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
93.	Fire Extinguisher , ABC Type	Fire Extinguisher , ABC Type - Material: Mono ammonium phosphate powder 50 % - cylinder capacity: 4 kg min - Type: stored pressure - Color: Red - Suitable for class A,B & C type fire, - Refillable type cylinder - Conforming to IS:	Control discharge, - fitted with pressure gauge. - Discharge range 3 Meter fire - Fire rating 2A & 21B. - easy to service & rechargeable.	wall bracket for hanging fire extinguisher cylinder - Other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of	Two Years

		15683 or equivalent Standard.					Polytechnic	
94.	Fire Extinguisher CO₂ Type	Fire Extinguisher CO ₂ Type - Gas: Carbon dioxide with discharge horn and control mechanism - body made from mild steel. - cylinder capacity: 3 kg - Type: Carbon dioxide stored pressure -Color: Red - Suitable for class B & C type fire, more suitable for flammable liquid, gases & electrical started fire. - Refillable type cylinder - Conforming to IS: 15683 or equivalent.	Control discharge, - fitted with pressure gauge. - Discharge range 3 Meter fire - Fire rating 2A & 21B. - easy to service & rechargeable.	wall bracket for hanging fire extinguisher cylinder - Other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
95.	Fire buckets set with stand	Fire buckets set with stand - Fire Buckets set of 4 pcs. - Size: Standard - Thickness : 18-20 SWG - Material : Made from galvanized sheet - Color: Outside red	The word FIRE must written on the outside of bucket in black color. - Bottom of bucket should be hemispherical. - Other standard features.	Stand frame made from MS angle strong enough to hold filled four buckets - Top galvanized sheet 3x2 feet - Size : Height 3.5 feet, 3 feet wide. - Red painted - hooks for hanging the buckets - Rubber grommet is provided at each hole.	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP	Two Years

		& inside white - Shape :Bucket- Round bottom - Weight :720 Grams min - Metallic stand to hold 4 buckets - Conforming to ISI or equivalent.					in Himachal Pradesh - Training as required by staff of Polytechnic	
96.	First Aid Box	First Aid Box - Material : Box made from M. S. - Contents of the box: 113 Pieces. of 26 items. - Size= L 26.5 X W 21 X H 15.5 cm. min - Type : B - Color: Green - First aid sign , red in color ,on top & all sides of box. - Conforming to IS: 13115 or equivalent Standard.	Locking arrangement and lifting handle is provided	name of contents quantity and other information must be tabulated as per standard.	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
97.	Cotton hand Gloves (pair)	Cotton hand Gloves (pair) - size ; 8” - Material : cotton - Conforming to ISI or equivalent Standard.	Gloves suitable for prevention against electric shock, flames, hot parts, sharp or flying metal sparks. - Long lasting, Stretchable, Perfect design - Highly	Dust protection and storage cover - other Standard Accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal	Two Years

			comfortable and Easy to wear - Other Standard features				Pradesh - Training as required by staff of Polytechnic	
98.	Leather hand sleeves (pair)	Leather hand sleeves (pair) - size ;16" - Material : leather - heat resistant - Conforming to ISI or equivalent Standard.	Highly comfortable and Easy to wear - provision for adjustment	dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
99.	Leather apron	Leather apron - Made of superior quality split leather, - Fine finishing - Leather Straps - provision for adjustment - Conforming to ISI or equivalent Standard	Standard	dust and storage cover	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
100.	Electric Line Tester	Electric Line Tester	Non Flammable	Dust protection and	Standard	Warranty	To be supplied	Two Years

	cum Screw Driver	cum Screw Driver - TIP SIZE=3.5 x 0.5mm - Length=170mm minimum Material: High - Grade Steel and Transparent cellulose acetate handle. - Fully insulated blade ensures shock proof working. - Conforming to ISI or equivalent standard.	and Not affected by Grease, Oil and Water. - Distinct glow of Neon lamp identifies line 'live'. - Features a clip for safe carrying in pocket. - Other Standard features	storage cover - other Standard accessories		Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
101.	Screw driver - 9x200 mm	Screw driver Blade Size= 9mm Length = 200 mm Material : high grade steel Handle Material: Transparent green cellulose acetate handle made from high grade C. A. Insulated stem, Chrome vanadium blades for extra strength Black phosphate coated tip reduces slippage Conforming to Standard IS:844 or equivalent	Handle Plastic which is non flammable and unaffected by oil petrol, grease, water etc. - Comfortable cushion grip handles allow extra torque - Precision ground tip reduces slippage.	Dust protection and storage cover - other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
102.	Electrician Screw Driver - 250 mm	Electrician Screw Driver - Size=250	Standard	Dust protection and storage cover - other	Standard	Warranty Certificate	To be supplied	Two Years

		mm - Material : High Grade Steel and Transparent green cellulose acetate handle. - Insulated stem, - Standard IS:844:1979 or equivalent.		Standard accessories		Operating Manual/ user Manual, - Contact detail of Local Service Providers	and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
103.	Mirror - 100X150 mm	Mirror plane back silvered and protecting coating Size: 100 x 150x8mm Conforming to ISI or equivalent standard..	High quality Glass - Suitable wood frame	Dust protection and storage cover - other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
104.	Screw Driver set - 10x 200mm	Screw Driver Set - size: 10x 200 mm and 10x250 mm - Type: flat - Blade Material: High Grade Steel - Insulated stem - Handle Material:	Standard	Storage case	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service	To be supplied and installed at Governmen t Polytechnic (Women), Rehan Distt.	Two Years

		Cellulose Acetate - The handles shall be provided with proper serrations so that the handles do not slip during usage. - Non Flammable and Not affected by Grease, Oil and Water. - Conforming to IS: 844 or equivalent Standard.				Providers	Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
105.	Brass Parallel Rulers	Brass Parallel Rulers - 18" brass Arm Parallel Ruler - 6mm thickness and 45 length. - Solid brass arms and handles - Includes protractor scale - Conforming to ISI or equivalent standard	Standard	Dust protection and storage cover - other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
106.	Air Conditioner	Capacity: 1.5 Ton(s) BEE Rating: 5 Star AC Type: Split Usage: Home Warranty: 1 Year(s) Noise Level Indoor: 48 DB Anti Fungus: Yes	- Low maintenance -Sturdy construction -Corrosion-resistance	All the accessories .(Complete)	Standard	Standard	To be supplied and installed at Government Polytechnic (Women), Rehan	3 Years

		Timers: Yes Auto Restart: Yes Sleep Mode: Yes Remote Control: Yes Air Swing: Yes Color: White Tonnage: 1.5- With Inveter					Distt. Kangra HP in Himachal Pradesh - Training as required by staff of Polytechnic	
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Lot 9: Furniture for Workshops

Item No.	Name of Goods or Related Services	Technical Specifications of Item and/or Bureau of Indian Standards (BIS) (if applicable) reference	Features	Accessories	Spare parts	Documents	Installation & Training	Warranty of Equipment/parts
1.	Almirah-Large	Dimension: H2500 x W1200 x D500 mm - Made of 1.6 mm thick or 16 gauge mild steel sheet - having four shelves and five compartments of adjustable height arrangements - Having Double door with locking arrangements - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey - Legs of the Almirah should have hard rubber shoe	All parts should be fitted using additional Metal Clamps and Screws such that the Cupboard/ Almirah will be durable in use	Standard	Extra clamps for adjusting shelves with other Standard spares	Cupboard Drawing and manual for adjusting shelves	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
2.	Almirah-Small	Dimension: H1200 x W600 x D450 mm - Made of 1.6 mm thick or 16 gauge mild steel sheet - having three shelves and four compartments of adjustable height arrangements - Having Double door with locking arrangements - Ground clearance of	All parts should be fitted using additional Metal Clamps and Screws such that the Cupboard/	Standard	Extra clamps for adjusting shelves	Cupboard Drawing and manual for adjusting shelves	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years

		minimum 150mm -All metallic parts should be anodised and colour smoke grey - Legs of the Almirah should have hard rubber shoe	Almirah will be durable in use		with other Standard spares			
3.	Chair-Revolving	Revolving computer chair - Seat size 460mm x 460mm and of height 400mm to 510mm (adjustable with hydraulic mechanism) - with arms - Seat and back should be made up of 12mm thick hot-pressed plywood upholstered with fabric and moulded Polyurethane foam (50mm thick. With density 50-55), with 3mm PVC beading - chair on fine quality twin wheel coaster wheels (5 prong base) - heavy duty fabric seat & back	All parts used in manufacturing should be of best quality such that the chair is rugged for use by students	Standard	Standard	Chair Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	2 Years
4.	White Board	White Board size Dimensions 6 X 4 feet (1830x1220mm) - Melamine white board or equivalent with smooth surface for writing/ dry erasing -Satin finished strong Aluminium frame -Full length marker and eraser tray - Wall mounted arrangement set	All parts of frame should be fitted using additional Metal Clamps and Screws such that the board is rugged for use by Trainers/students	Standard	Extra Clamps and screws and other standard spares	Board Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	2 Years
5.	Display Board-with Cover	Dimension: - Length 1200mm X Width 900mm X 50.8mm thickness - frame made of Aluminium channel suitable section covered with transparent acrylic sheet of 0.8mm thickness with sliding door arrangement. - Wall mounting four number bracket arrangements	All parts of frame should be fitted using additional Metal Clamps and Screws such that the board is rugged for use by Trainers/students	Standard	Extra Clamps and screws and other standard spares	Board Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
6.	Metal Rack	Dimension: H1820 x W1520 to 1820(adjustable as required) x D450 mm - Frame should be made of 35x35x3mm slotted angles -Shelf should be Made of 1 mm thick CRC sheet - having four shelves	All parts should be fitted using additional Metal Clamps and Screws such that	Standard	Extra clamps for adjusting	Shelf and manual for adjusting shelves	At the Government Polytechnic (Women), Rehan Distt	3 Years

		and five compartments with centre support of angle -No joint is allowed on angle and all joints of shelves and angles should be with extra clamps and steel screws - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey	the shelf will be durable in use		shelves with other Standard spares		Kangra in HP	
7.	Steel Drawer	Dimensions:- H600XW450XD700 -Made of 1mm CR sheet -Steel ball bearing suspension should be provided for two sliding racks on both sides to open their full depth for total access to the contents - Chrome plated metallic handles - Fixed pedestal - All metallic parts should be anodised and colour smoke grey - Legs of the Book Shelf should have hard rubber shoe	All parts should be fitted using additional Metal Clamps and Screws such that the Storage cabinet will be durable in use	Standard	Standard	Storage Cabinet Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
8.	Storage Cabinet	Dimensions:- L600XW450XD700 -Made of 1mm CR sheet -Steel ball bearing suspension should be provided for two sliding racks on both sides to open their full depth for total access to the contents - Chrome plated metallic handles - Fixed pedestal - All metallic parts should be anodised and colour smoke grey - Legs of the Book Shelf should have hard rubber shoe	All parts should be fitted using additional Metal Clamps and Screws such that the Storage cabinet will be durable in use	Standard	Standard	Storage Cabinet Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
9.	Wiring Board on Stand	Dimension:- 3000 (L) x 1000 (H) - 500mm projected on top -made of 40mm thick soft wood fitted on frame of MS tube 40 x 40 x 2.6 mm thick including 3 prong on each leg of MS frame -Metallic frame should be anodised and coloured with grey paint	All parts/ joints should be fitted using additional Metal Clamps and nut bolts such that the Table will be durable and is rugged for use by students	Standard	Standard	Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years

10.	Work Bench	<p>Dimensions: - 2500 x 1200 x 750 mm</p> <p>-Frame top size 2300 x 1100 mm made of Square Pipe 50 x 50mm of 1.6mm thickness having four legs with one centre support in top frame of Square pipe 50 x 50mm of 1.6mm thickness.</p> <p>-Four legs supported with each other with Square pipe 50 x 50mm of 1.6mm thickness, 100 mm above floor.</p> <p>-Topping with full length 40mm thick teak slab fitted with dia 6-10mm nut bolt which should be well shanked.- Frame should be enamelled paints</p> <p>- Complete top should be covered with good quality 19mm rubber stucked with teak slab with good quality adhesive-All top edges should be covered with Aluminium Angle of size 25 x 25mm well screwed with machine screws such that the table is rugged for use by students</p>	All parts/ joints should be fitted using additional Metal Clamps and nut bolts such that the Table will be durable and is rugged for use by students	Standard	Standard	Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
11.	Computer Table	<p>Size: L1200xW550xH850mm for double user & single monitor (TFT) - should accommodate one desktop computer (CPU) below the table - should accommodate one small UPS - should have retractable keyboard tray - should have at least one draw for keeping cables and accessories - table top should be of minimum 19 mm of material either MDF or laminated board - all other parts and panels made of high quality laminated particle board with PVC edges - The particle board should be inner fitted with metal insert type screw fitting.</p>	All parts should be fitted using additional Metal Clamps and Screws such that the table is rugged for use by students	Standard	Standard	Table Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
12.	Chair-Tubular	<p>Dimensions :Overall Height: 850mm, Seat Height: 475mm, Overall Width: 567mm, Seat Width: 504mm ,Overall Depth:</p>	All parts used in manufacturing should be of best	Standard	Standard	Table Drawing	At the Government Polytechnic	3 Years

		600mm, Arm Height: 660mm - 25mm square tubing powder coated satin black frame - Seat and back should be made up of 12mm thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam (50mm	quality such that the chair is rugged for use by students				(Women), Rehan Distt Kangra in HP	
13.	Table	Dimensions: L1600 x W900 x H750mm - 25mm thick wooden board pasted with teak wood colour sun mica of good quality of size 0.8mm with lipping of Teak wood half round 25mm wide -Frame size L1350mm x W600 should be made of ERW Square pipe 35x35x1.6mm -Two drawers should be provided on same side and drawer box should be made of CR sheet 0.80 mm thick of size Deep L510xW450 xH100mm with sliding arrangement - Foot rest should be of ERW square pipe 35x35x1.25mm in full length - Whole frame should be anodised and grey painted -Legs should be packed with good quality rubber shoes	All parts/ joints should be fitted using additional metal Clamps and Screws such that the Table is rugged for use by students	Standard	Standard	Table Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
14.	Sitting Bench	Four students sitting. Height 600mm width 450mm and length 2400 mm with steel frames and wooden top 50mm	Standard	Dust protection and storage cover - other Standard accessories	Standard	Warranty Certificate Operating Manual/ user Manual, - Contact detail of Local Service Providers	To be supplied and installed at Government Polytechnic (Women), Rehan Distt Kangra in Himachal Pradesh - Training as required by staff of Polytechnic	Two Years
15.	Students chairs with writing pads	Dimensions:- Width514 x Depth711x Height816mm - Seat Width444mm Seat Depth431mm Seat Height441mm Back	All parts/ joints should be fitted using additional	Standard	Standard	chair Drawing	To be supplied and installed at	Three Years

		Width444mm Back Height From Seat419mm Arm Height From Seat 292mm - Seat Drain Holes assist in drying, Black Powder Coated Frame Finish - Material :-LEGS: Fabricated by ¾” Dia 18 Gauge Round, MS oil Pipe Powder Coated, Seat & Back: Fabricated By 18 Gauge Perforated Sheet, ARMS: Metal arms, PAD: Laminated plywood Pad	metal Clamps and Screws such that the chair be durable				Government Polytechnic (Women), Rehan Distt Kangra in Himachal Pradesh - Training as required by staff of Polytechnic	
16.	Computer Table	Size: L1200xW550xH850mm for double user & single monitor (TFT) - should accommodate one desktop computer (CPU) below the table - should accommodate one small UPS - should have retractable keyboard tray - should have at least one draw for keeping cables and accessories - table top should be of minimum 19 mm of material either MDF or laminated board - all other parts and panels made of high quality laminated particle board with PVC edges - The particle board should be inner fitted with metal insert type screw fitting.	All parts should be fitted using additional Metal Clamps and Screws such that the table is rugged for use by students	Standard	Standard	chair Drawing	To be supplied and installed at Government Polytechnic (Women), Rehan Distt Kangra in Himachal Pradesh - Training as required by staff of Polytechnic	Three Years
17.	Stools	Stool:- Dimension: Height adjustable from 450 mm - 600mm - Seat dimension: 340 x 340mm (minimum) - Material: High quality hard wood with smooth upside -Height adjustable with hydraulic mechanism - Strong metallic frame made of metal rectangular pipe with anodised 50x25mm of 1.6 mm thickness -Legs should be packed with good quality rubber shoes	All parts should be fitted using additional Metal Clamps and Screws such that the tables is rugged	Standard	Standard	Table Drawing	To be supplied and installed at Government Polytechnic (Women), Rehan Distt Kangra in Himachal Pradesh - Training as required by staff of Polytechnic	Three Years

18.	Metal Rack	Dimension: H1820 x W1520 to 1820(adjustable as required) x D450 mm - Frame should be made of 35x35x3mm slotted angles -Shelf should be Made of 1 mm thick CRC sheet - having four shelves and five compartments with centre support of angle -No joint is allowed on angle and all joints of shelves and angles should be with extra clamps and steel screws - Ground clearance of minimum 150mm -All metallic parts should be anodised and colour smoke grey	All parts should be fitted using additional Metal Clamps and Screws such that the shelf will be durable in use	Standard	Extra clamps for adjusting shelves with other Standard spares	Shelf and manual for adjusting shelves	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years
19.	Carpentry working wooden bench with carpentry Vice	Dimensions: - 1800 x 900 x 750 mm -with wooden top of size 1800 x 900 mm x 40mm with Four wooden legs of size 75mmx75mm with one storage cabinet for tools and materials and two carpentry vices of size: 200mm fitted on the wooden frame of size 1800 mm x300mmx40mm one on each side.	All parts/ joints should be fitted using additional Metal Clamps and nut bolts such that the Table will be durable and is rugged for use by students	Standard	standard	Drawing	At the Government Polytechnic (Women), Rehan Distt Kangra in HP	3 Years

Annexure A**4. Drawings**

Not Applicable

Section 7 - General Conditions of Contract

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1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

- (a) "Contract" means the Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendixes, and all documents incorporated by reference therein.
- (b) "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- (c) "Contract Price" means the price payable to the Supplier as specified in the Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (d) "Day" means calendar day.
- (e) "Delivery" means the transfer of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- (f) "Completion" means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) "Eligible Countries" means the countries and territories eligible as listed in Section 5.
- (h) "GCC" means the General Conditions of Contract.
- (i) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (j) "Purchaser's Country" is the country specified in the Special Conditions of Contract (SCC).
- (k) "Purchaser" means the entity purchasing the Goods and Related Services, as specified in the SCC.
- (l) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the Supplier under the Contract.
- (m) "SCC" means the Special Conditions of Contract.
- (n) "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
- (o) "Supplier" means the natural person, private or government entity, or a combination of the above, whose bid to perform the

Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the Supplier.

- (p) "ADB" is the Asian Development Bank.
- (q) "The Site," where applicable, means the place named in the SCC.

2. Contract Documents

- 2.1 Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

3. Fraud and Corruption

- 3.1 ADB's Anticorruption Policy requires Borrowers (including beneficiaries of ADB-financed activity), as well as Bidders, Suppliers, and Contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, ADB

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;
 - (v) "obstructive practice" means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an ADB investigation; (b) making false statements to investigators in order to materially impede an ADB investigation; (c) failing to comply with requests to provide information, documents or records in connection with an Office of Anticorruption and Integrity (OAI) investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding ADB's contractual rights of audit or access to information; and
 - (vi) "integrity violation" is any act which violates ADB's Anticorruption Policy, including (i) to (v) above and the following: abuse, conflict of interest, violations of ADB sanctions, retaliation against whistleblowers or witnesses, and other violations of ADB's Anticorruption Policy,

including failure to adhere to the highest ethical standard.

- (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the Contract;
- (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations during the procurement or the execution of that contract, without the borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation; and
- (d) will impose remedial actions on a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate¹ in ADB-financed, administered, or supported activities or to benefit from an ADB-financed, administered, or supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations.

- 3.2 The Supplier shall permit ADB to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by ADB, if so required by ADB.

4. Interpretation

- 4.1 If the context so requires it, singular means plural and vice versa.

4.2 Incoterms

- (a) The meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.
- (b) EXW, CIF, CIP, and other similar terms, shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce at the date of the Invitation for Bids or as specified in the SCC.

4.3 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations, and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.

¹ Whether as a Contractor, Subcontractor, Consultant, Manufacturer or Supplier, or Service Provider; or in any other capacity (different names are used depending on the particular Bidding Document).

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

(a) Subject to GCC Subclause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the SCC, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

6. Joint Venture

6.1 If the Supplier is a Joint Venture all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the Joint Venture. The composition or the constitution of the Joint Venture shall not be altered without the prior consent of the Purchaser.

7. Eligibility

7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted or incorporated, and operates in conformity with the provisions of the laws of that country.

- 7.2 All Goods and Related Services to be supplied under the Contract and financed by ADB shall have their origin in Eligible Countries. For the purpose of this clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components.
- 8. Notices**
- 8.1 Any Notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term "in writing" means communicated in written form with proof of receipt.
- 8.2 A Notice shall be effective when delivered or on the Notice's effective date, whichever is later.
- 9. Governing Law**
- 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Purchaser's country, unless otherwise specified in the SCC.
- 10. Settlement of Disputes**
- 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If the parties fail to resolve such a dispute or difference by mutual consultation within 28 days from the commencement of such consultation, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the SCC.
- 11. Scope of Supply**
- 11.1 Subject to the SCC, the Goods and Related Services to be supplied shall be as specified in Section 6 (Schedule of Supply).
- 11.2 Unless otherwise stipulated in the Contract, the Scope of Supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods and Related Services as if such items were expressly mentioned in the Contract.
- 12. Delivery**
- 12.1 Subject to GCC Subclause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Section 6 (Schedule of Supply). The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.
- 13. Supplier's Responsibilities**
- 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 11, and the Delivery and Completion Schedule, as per GCC Clause 12.
- 14. Purchaser's Responsibilities**
- 14.1 Whenever the supply of Goods and Related Services requires that the Supplier obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.

- 14.2 The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with GCC Subclause 14.1.
- 15. Contract Price**
- 15.1 The Contract Price shall be as specified in the Agreement subject to any additions and adjustments thereto, or deductions therefrom, as may be made pursuant to the Contract.
- 15.2 Prices charged by the Supplier for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the SCC.
- 16. Terms of Payment**
- 16.1 The Contract Price shall be paid as specified in the SCC.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 12 and upon fulfillment of all the obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Purchaser, no later than 60 days after submission of an invoice or request for payment by the Supplier, and the Purchaser has accepted it.
- 16.4 The currency or currencies in which payments shall be made to the Supplier under this Contract shall be specified in the SCC.
- 17. Taxes and Duties**
- 17.1 For goods supplied from outside the Purchaser's country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's country.
- 17.2 For goods supplied from within the Purchaser's country, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- 17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
- 18. Performance Security**
- 18.1 The Supplier shall, within 28 days of the notification of Contract award, provide a Performance Security for the due performance of the Contract in the amounts and currencies specified in the SCC.
- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 The Performance Security shall be denominated in the currencies of the Contract, or in a freely convertible currency acceptable to the Purchaser, and shall be in one of the forms stipulated by the Purchaser in the SCC, or in another form acceptable to the Purchaser.

- 18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than 28 days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the SCC.
- 19. Copyright**
- 19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
- 20. Confidential Information**
- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the Contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- 20.3 The obligation of a party under GCC Subclauses 20.1 and 20.2 above, however, shall not apply to information that
- (a) the Purchaser or Supplier need to share with ADB or other institutions participating in the financing of the Contract;
 - (b) now or hereafter enters the public domain through no fault of that party;
 - (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

- 20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.
- 21. Subcontracting**
- 21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.
- 21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.
- 22. Specifications and Standards**
- 22.1 Technical Specifications and Drawings
- (a) The Supplier shall ensure that the Goods and Related Services comply with the technical specifications and other provisions of the Contract.
 - (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
 - (c) The Goods and Related Services supplied under this Contract shall conform to the standards mentioned in Section 6 (Schedule of Supply) and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.
- 22.2 Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Section 6 (Schedule of Supply). During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.
- 23. Packing and Documents**
- 23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- 23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by the Purchaser.

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| 24. Insurance | 24.1 Unless otherwise specified in the SCC, the Goods supplied under the Contract shall be fully insured, in a freely convertible currency from an eligible country, against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC. |
| 25. Transportation | 25.1 Unless otherwise specified in the SCC, obligations for transportation of the Goods shall be in accordance with the Incoterms specified in Sections 6 (Schedule of Supply). |
| 26. Inspections and Tests | <p>26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in Sections 6 (Schedule of Supply).</p> <p>26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the final destination of the Goods, or in another place in the Purchaser's country as specified in the SCC. Subject to GCC Subclause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.</p> <p>26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Subclause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.</p> <p>26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.</p> <p>26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes, and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.</p> <p>26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.</p> <p>26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat</p> |

the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Subclause 26.4.

- 26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Subclause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

- 27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the Contract Price for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

- 28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 28.2 Subject to GCC Subclause 22.1, the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 28.3 Unless otherwise specified in the SCC, the warranty shall remain valid for 12 months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for 18 months after the date of shipment or loading in the country of origin, whichever period concludes earlier.
- 28.4 The Purchaser shall give Notice to the Supplier, stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 28.5 Upon receipt of such Notice, the Supplier shall, within the period specified in the SCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the SCC, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Subclause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Subclause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within 28 days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

- 30. Limitation of Liability**
- 30.1 Except in cases of gross negligence or willful misconduct,
- (a) neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and
 - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the SCC, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Supplier to indemnify the Purchaser with respect to patent infringement.
- 31. Change in Laws and Regulations**
- 31.1 Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.
- 32. Force Majeure**
- 32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 32.2 For purposes of this clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 33. Change Orders and Contract Amendments**
- 33.1 The Purchaser may at any time order the Supplier through Notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within 28 days from the date of the Supplier's receipt of the Purchaser's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

34. Extensions of Time

34.1 If at any time during performance of the Contract, the Supplier or its Subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 12, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 27, unless an extension of time is agreed upon, pursuant to GCC Subclause 34.1.

35. Termination

35.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by Notice of default sent to the Supplier, may terminate the Contract in whole or in part,
 - (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34; or
 - (ii) if the Supplier fails to perform any other obligation under the Contract.

- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.
- (c) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.

35.2 Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving Notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

35.3 Termination for Convenience

- (a) The Purchaser, by Notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within 28 days after the Supplier's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect
 - (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

- 36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

Section 8- Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(j)	The Purchaser's country is: India
GCC 1.1(k)	The Purchaser is: Directorate of Technical Education, Vocational and Industrial Training, Himachal Pradesh represented by The Director
GCC 1.1 (q)	The Site is: the deliveries shall be made to Govt. Polytechnic (Women), Rehan Distt. Kangra Himachal Pradesh India as stated in Section 6.
GCC 4.2 (b)	The version of Incoterms shall be: 2010
GCC 5.1	The language shall be: English
GCC 8.1	<p>For <u>notices</u>, the Purchaser's address shall be:</p> <p>Attention: The Director</p> <p>Directorate of Technical Education, Vocational and Industrial training</p> <p>Circular Road</p> <p>City: Sunder Nagar,</p> <p>District: Mandi</p> <p>Himachal Pradesh</p> <p>ZIP code: 175018</p> <p>Country: India</p> <p>Telephone & Fax: 01907-266120; 266722</p> <p>E-mail address: techedu-hp@nic.in</p>
GCC 9.1	The governing law shall be: Laws of India
GCC 10.2	<p>The formal mechanism for the resolution of disputes shall be:</p> <p><u>For a contract with a Foreign Supplier:</u></p> <p>International arbitration shall be conducted in accordance with the rules of the Singapore International Arbitration Centre (SIAC).</p> <p>Arbitration shall be administered by the Singapore International</p>

	<p>Arbitration Centre (SIAC).</p> <p>The place of arbitration shall be: the place of the institution administering the arbitration.</p> <p><u>For a contract with a Local Supplier:</u></p> <p>In the case of a dispute between the purchaser and the supplier, the dispute shall be settled by arbitration in accordance with the provisions of the local arbitration procedures in the Purchaser's country.</p> <p>Place of arbitration: in the Purchaser's country.</p>
GCC 11.1	<p>The Scope of Supply shall be defined in: List of Goods and Related Services of Section 6 (Schedule of Supply). At the time of awarding the contract, the Purchaser shall specify any change in the scope of supply with respect to Section 6 (Schedule of Supply) included in the Bidding Document. Such changes may be due, for instance, if the quantities of Goods and Related Services are increased or decreased at the time of award.</p>
GCC 12.1	<p>Details of shipping and documents to be furnished by the Supplier shall be:</p> <p>For Goods supplied from abroad as per Incoterm CIP:</p> <p>Upon shipment, the Supplier shall notify the Purchaser and the Insurance Company by telex or fax the full details of the shipment, including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall send the following documents to the Purchaser, with a copy to the Insurance Company:</p> <ul style="list-style-type: none"> (a) 3 copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount; (b) Original and 3 copies of the negotiable, clean, on-board bill of lading marked "freight prepaid" and 3 copies of non-negotiable bill of lading; (c) 3 copies of the packing list identifying contents of each package; (d) Insurance certificate; (e) Manufacturer's or Supplier's warranty certificate; (f) Inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and (g) Certificate of origin. <p>The Purchaser shall receive the above documents at least one (1) week before arrival of Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.</p>

	<p><u>For Goods from within the Purchaser's country as per Incoterm EXW:</u></p> <p>Upon delivery of the Goods to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser:</p> <ul style="list-style-type: none"> (a) 3 copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount; (b) Delivery note, railway receipt, or truck receipt; (c) Manufacturer's or Supplier's warranty certificate; (d) inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and (e) Certificate of origin. <p>The Purchaser shall receive the above documents before the arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses..</p>
GCC 15.2	The price adjustment <i>shall not</i> be applicable.
GCC 16.1	<p>Payment of the Contract Price shall be made in the following manner:</p> <p>For Goods and Related Services supplied from outside the Purchaser's country:</p> <ul style="list-style-type: none"> a) Advance Payment: 10% of the Contract Price within 28 days of signing of the Contract. Payment shall be made provided the Supplier presents a request for payment accompanied by an Advance Payment Security in the form of a bank guarantee for an amount equal to the amount of the payment, and that shall be valid until the Goods are delivered. The security shall be in the form as specified in Section 9 (Contract Forms); b) On Shipment: The Purchaser shall pay the Supplier 80% of the Contract Price of the Goods shipped through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country under the ADB commitment procedure, upon submission of documents specified in SCC Clause 12.1; c) On Acceptance: 10% of the Contract Price of Goods received shall be paid within 28 days of receipt of the Goods upon submission of a claim supported by the acceptance certificate issued by the Purchaser. <p>For Goods and Related Services supplied from within the Purchaser's country:</p> <ul style="list-style-type: none"> (a) Advance Payment: 10% of the Contract Price within 28 days of signing of the Contract. Payment shall be made provided the Supplier

	<p>presents a request for payment accompanied by an Advance Payment Security in the form of a bank guarantee for an amount equal to the amount of the payment, and that shall be valid until the Goods are delivered. The security shall be in the form as specified in Section 9 (Contract Forms);</p> <p>(b) On Delivery: The Purchaser shall pay the Supplier 80% of the Contract Price of the Goods shipped through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country under the ADB commitment procedure, upon submission of documents specified in SCC Clause 12.1;</p> <p>(c) On Acceptance: 10% of the Contract Price of Goods received shall be paid within 28 days of receipt of the Goods upon submission of a claim supported by the acceptance certificate issued by the Purchaser.</p>
GCC 16.4	The currencies for payments shall be: the currency/ies in which the bid price is expressed in the bid of the successful bidder.
GCC 18.1	<p>The Supplier shall provide a Performance Security of 10% of the Contract Price. The Performance Security shall be denominated in the following amounts and currencies: 10% of the Contract Price in INR.</p> <p>Because of the above, the currencies and amounts of the performance security can only be specified at the time of awarding the contract.</p>
GCC 18.3	The forms of acceptable Performance Security are: A bank guarantee issued by a reputable bank located in the Purchaser's country or abroad, acceptable to the Purchaser, in the format included in Section 9 (Contract Forms), or a cashier's or certified check, or cash
GCC 18.4	Discharge of the Performance Security shall take place: Pursuant to GCC Subclause 18.4, after delivery and acceptance of the Goods, the performance security shall be reduced to five percent (5.0 %) of the Contract Price to cover Supplier's warranty obligations in accordance with GCC Clause 28.3.
GCC 23.2	<p>The packing, marking, and documentation within and outside the packages shall be:</p> <p>Packing:</p> <p>(1) The supplied Goods shall be packed by standard protective measures. Such packing shall be suitable for long distance transportation and well protected against dampness, moisture, shock, rust and rough handling so as to ensure that the Goods will safely arrive at the designated site without any damage due to the above mentioned reasons, and</p>

	<p>(2) In each package there shall be one copy each of the detailed packing list and the quality certificate.</p> <p>Marking:</p> <p>(1) The Supplier shall mark the following on the four adjacent sides of each package with indelible paint in conspicuous English printed words:</p> <p>A. CONSIGNEE</p> <p>B. CONTRACT NO.</p> <p>C. SHIPPING MARK</p> <p>D. CONSIGNEE CODE</p> <p>E. DESTINATION</p> <p>F. NAME OF GOODS AND ITEM NO., CASE NO.</p> <p>G. GROSS/NET WEIGHT (Kg)</p> <p>H. MEASUREMENT (LENGTH x WIDTH x HEIGHT IN CM)</p> <p>(2) If any package weighs two (2) tons or more, the Supplier shall mark on two sides of each package in English and with appropriate transportation marks to show the "center of gravity" and "points of slinging" in order to facilitate loading, discharging and handling. According to the characteristics of the Goods and the different</p> <p>8-6 Section 8 - Special Conditions of Contract</p> <p>Bidding Document for _____ Procurement of Goods Single-Stage: Two-Envelope</p> <p>requirements in transportation, packages shall be marked legibly by the Supplier with words "Handle with Care", "Right Side Up", "Keep Dry", etc., and with other appropriate marks..</p>
GCC 24.1	<p>The insurance coverage shall be in accordance with: Pursuant to GCC, Subclause 24.1, the Supplier must insure the Goods in an amount to equal to 110% of the CIP or EXW price of the Goods from "Warehouse" to "Warehouse" on "All Risks" basis, including War Risks and Strikes.</p>
GCC 25.1	<p>Obligations for transportation of the Goods shall be in accordance with: Incoterms 2010 - the Supplier is required to transport the Goods to a specified place of final destination, in good condition, including storage, and related costs shall be borne by the Supplier.</p>
GCC 26.2	<p>Tests and Inspections specified in Section 6 (Schedule of Supply), shall be carried out at the following times or milestones, and places:</p> <p>Factory Inspection: Not required;</p> <p>Site inspection: upon delivery of the Goods</p>

GCC 27.1	The applicable rate for liquidated damages for delay shall be: 0.1% of the Contract Price per day.
GCC 27.1	The maximum amount of liquidated damages shall be: 10% of the Contract Price.
GCC 28.3	The period of validity of the Warranty shall be: 365 days. The place of final destination shall be: As specified in the Delivery and Completion Schedule of Section 6 (Schedule of Supply).
GCC 28.5	The Supplier shall correct any defects covered by the Warranty within 14 days of being notified by the Purchaser of the occurrence of such defects.
GCC 30.1 (b)	The amount of aggregate liability shall be: equivalent to 100% of the Contract Price

Section 9- Contract Forms

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Letter of Acceptance

---- on letterhead of the purchaser ----

..... date.

To:name and address of the supplier

Subject:Notification of Award Contract No.

This is to notify you that your Bid dateddate. . . . for execution of the name of the contract and identification number, as given in the Bid Data Sheet for the Accepted Contract Amount of the equivalent of amount in figures and words and name of currency , as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract, using for that purpose the Performance Security Form included in Section 9 (Contract Forms) of the Bidding Document.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract Agreement

Contract Agreement

THIS AGREEMENT made on the *[insert number]* day of *[insert month]*, *[insert year]*, between *[insert complete name of Purchaser]* of *[insert complete address of purchaser]* (hereinafter “the Purchaser”), of the one part, and *[insert complete name of supplier]* of *[insert complete address of supplier]* (hereinafter “the Supplier”), of the other part:

WHEREAS the Purchaser invited Bids for certain Goods and Related Services, viz., *[insert brief description of the goods and related services]* and has accepted a Bid by the Supplier for the supply of those Goods and Related Services in the sum of *[insert currency or currencies and amount of contract price in words and figures]* (hereinafter “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Letter of Acceptance;
 - (b) the Price Bid Submission Sheet and the Price Schedules submitted by the Supplier;
 - (c) the Technical Bid Submission Sheet submitted by the Supplier;
 - (d) the Special Conditions of Contract;
 - (e) the List of Eligible Countries that was specified in Section 5 of the Bidding Document;
 - (f) the General Conditions of Contract;
 - (g) the Schedule of Supply;

This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

3. In consideration of the payments to be made by the Purchaser to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Related Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[indicated name of country]* on the day, month and year indicated above.

Signed by *[insert authorized signature for the purchaser]* (for the Purchaser)

Signed by *[insert authorized signature for the supplier]* (for the Supplier)

Performance Security

*Bank's name, and address of issuing branch or office*¹

Beneficiary: *Name and address of purchaser*

Date:

Performance Guarantee No.:

We have been informed that *name of the supplier*. (hereinafter called "the Supplier") has entered into Contract No. *reference number of the contract*. dated with you, for the execution of *name of contract and brief description of goods and related services*. (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Supplier, we *name of the bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *name of the currency and amount in figures*². (*. amount in words.*) such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Supplier is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the day of ,³ and any demand for payment under it must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458 , except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.⁴

.....
Seal of bank and signature(s)

-- Note to Bidder --

If the institution issuing the performance security is located outside the country of the purchaser, it shall have a correspondent financial institution located in the country of the purchaser to make it enforceable.

- ¹ All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.
- ² The guarantor shall insert an amount representing the percentage of the contract price specified in the contract and denominated either in the currency(ies) of the contract or a freely convertible currency acceptable to the purchaser.
- ³ Insert the date 28 days after the expected completion date. The purchaser should note that in the event of an extension of the time for completion of the contract, the purchaser would need to request an extension of this guarantee from the guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the purchaser might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Purchaser's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."
- ⁴ Or the same or similar to this clause specified in the Uniform Rules for Demand Guarantees, ICC Publication No. 758 where applicable.

Advance Payment Security

Bank's name, and address of issuing branch or office¹

Beneficiary: *Name and address of purchaser*

Date:

Advance Payment Guarantee No.:

We have been informed that *name of the supplier*. (hereinafter called "the Supplier") has entered into Contract No. *reference number of the contract*. dated with you, for the execution of *name of contract and brief description of goods and related services*. (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum of. *name of the currency and amount in figures²*. (*amount in words*. . . .) is to be made against an advance payment guarantee.

At the request of the Supplier, we *name of the bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *name of the currency and amount in figures³*. (*amount in words*. . . .) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than the costs of mobilization in respect of the Goods and Related Services.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Supplier on its account number *Supplier's account number*. . . . at *name and address of the bank*. . . .

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Supplier as indicated in copies of interim statements or payment certificates that shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety percent (90%) of the Contract Price has been certified for payment, or on the . . . day of,⁴ whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458 (or ICC Publication No. 758 as applicable).

..... *Seal of bank and signature(s)*. . . .

-- Note to Bidder --

If the institution issuing the advance payment security is located outside the country of the purchaser, it shall have a correspondent financial institution located in the country of the purchaser to make it enforceable.

- ¹ All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.
- ² The guarantor shall insert an amount representing the amount of the advance payment denominated either in the currency(ies) of the advance payment as specified in the contract, or in a freely convertible currency acceptable to the purchaser.
- ³ Footnote 2.
- ⁴ Insert the expected expiration date of the time for completion. The purchaser should note that in the event of an extension of the time for completion of the contract, the purchaser would need to request an extension of this guarantee from the guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the purchaser might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Purchaser's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

Himachal Pradesh Skill Development Project.

Loan No: 3573-IND

Procurement of Goods Single-Stage: Two-Envelope Bidding Procedure

Bidding Document for Procurement of

Supply of Engineering Workshop Equipment's and Related items
for

Govt. Polytechnic (Women) Rehan District Kangra
to enhance

Technical and Vocational Skills
among the youth of Himachal Pradesh

(HPSDP-DOTE/WP/05);

Volume 2 (Price Bid)

Issued on: **04th July 2020**

Invitation for Bids No.: **GP001/2020**

NCB No: **HPSDP-DOTE/WP/05**

Purchaser: Department of Technical Education, Vocational and
Industrial Training, Himachal Pradesh represented by The Director

Country: **India**

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Price Bid Submission Sheet

-- Note --

The Bidder must accomplish the Price Bid Submission Sheet on its letterhead clearly showing the bidder's complete name and address.

Date: _____
 NCB No.: _____
 Invitation for Bid No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including the Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8. _____
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule specified in Section 6(Schedule of Supply), the following Goods and Related Services.
- (c) The total Bid price, excluding any discounts offered in item (d) below is

[amount of foreign currency in words], [amount in figures], and [amount of local currency in words],
 [amount in figures]

The total bid price from the Price Schedules should be entered by the Bidder inside this box. Absence of the total bid price in the Price Bid Submission Sheet may result in the rejection of the bid.

- (d) The discounts offered and the methodology for their application are as follows:

Discounts: If our Bid is accepted, the following discounts shall apply: _____

Methodology of Application of the Discounts: The discounts shall be applied using the following method: _____

- (e) Our bid shall be valid for a period of _____ days from the date fixed for the submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (f) If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract.
- (g) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate "none.")

- (h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Goods to Be Offered from Within the Purchaser's Country

Name of Bidder _____ IFB Number _____ Page ____ of ____

Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity and Unit of Measurement	Unit Price EXW (INR)	Total EXW Price per item (INR)	Sales and Other Taxes Per Item (INR)	Total Price per Item including Taxes (INR)
1	2	3	4	5	6	7 = 5 x 6	8	9 = 7 + 8
			Not Applicable					
Total Amount								

Notes:

- Column 4: In accordance with margin of preference ITB 38, if applicable.
Domestic Value Added comprises domestic labour, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.
- Column 6: Incoterm in accordance with ITB 14
Currency in accordance with ITB 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.
- Column 8: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**Price Schedule for Goods
to Be Offered from Outside the Purchaser's Country**

Name of Bidder _____ IFB Number _____ Page ____ of ____

Item	Description	Country of Origin	Quantity and Unit of Measurement	Unit Price CIF (...) or CIP (...) (INR)	Unit Price FOB (...) or FCA (...) (INR)	Total Price CIF or CIP per Item (INR)	Total Price FOB or FCA per Item (INR)
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Total Amount							

Notes:

Column 5 and 6: Incoterm in accordance with ITB 14
Currency in accordance with ITB 15

Column 6: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered from Outside and Within the Purchaser's Country

Name of Bidder _____ IFB Number _____ Page ____ of ____

Item No.	Description	Country of Origin	Quantity and Unit of Measurement	Unit Price		Total Price per Item	
				(a)	(b)	(a)	(b)
				Foreign Currency	Local Currency	Foreign Currency	Local Currency
1	2	3	4	5(a)	5(b)	6(a) = 4 x 5(a)	6(b) = 4 x 5(b)
				Not Applicable		Not Applicable	
Total Amount							

Notes:

Column 5 and 6: Currencies in accordance with ITB 15

Prices are to be quoted inclusive of all customs duties, sales and other similar taxes applicable in the Purchaser's country and payable on the Related Services, if the Contract is awarded to the Bidder

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____