



**श्री विश्वकर्मा कौशल विश्वविद्यालय**

(हरियाणा सरकार, एक्ट संख्या 25, 2016 के तहत )

**Shri Vishwakarma Skill University  
Plot 147, Sector 44, Gurugram, Haryana**

**Tender Document for**

**IT/Network/OFC Laying work at SVSU, Dudhola, Palwal**

**Tender No: SVSU/ITcell/2023/T002**

**Dated: 15.05.2023**

## 1. Notice Inviting Quotation

### Sub: IT/Network/OFC Laying work at SVSU, Dudhola, Palwal

Shri Vishwakarma Skill University, Haryana invites online Tender: “IT/Network/OFC Laying work at SVSU, Dudhola, Palwal” through e-procurement on portal <https://etenders.hry.nic.in> from reputed Manufacturers/Authorized Dealers/Distributors/Agencies as per TENDER document. The TENDER documents may also be downloaded from website (<http://www.svsu.ac.in>) of Shri Vishwakarma Skill University, Haryana for reference only. A minimum eligibility criterion has been given in TENDER document.

Apart from uploading e-tender on website, bidder has to deposit EMD and Tender Fee + E-service fees along-with other documents.

#### 1.1.SCHEDULE TABLE

<b>1.</b>	<b>(Tender Fee + E-Service Fee) + GST</b>	
	(1) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the “Haryana State Public Procurement Policy for MSME -2016” notified vide G.O. No. 2/2/2016-4I BII (1) dated 20-10-2016/ for Start-ups as notified vide G.O. No.2/2/2016-4IBII dated 03.01.2019.	<b>NIL</b>
	(2) For remaining bidders both from the Haryana and Non-Haryana (Tender Fee + E-Service Fee) + GST	<b>(5000/- + 1000/-) + 1080/- = 7080/- (Rupees Seven Thousand Eighty only)</b>
<b>2.</b>	<b>EMD Amount</b>	
	(1) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the “Haryana State Public Procurement Policy for MSME -2016” notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016/ for Start-up’s as notified vide G.O. No.2/2/2016-4IBII dated 03.01.2019.	<b>NIL</b>
	(2) For remaining bidders both from the Haryana and Non Haryana	<b>2% of Quoted Cost against the tender</b>
<b>3.</b>	Performance Security	<b>5% of the Purchase order Value</b>
<b>4.</b>	Product Warranty Period	<b>2 Years</b>
<b>5.</b>	Issue of Tender Document	<b>15.05.2023 at 14:00 Hrs.</b>
<b>6.</b>	Online Tender Purchase Start Date	<b>15.05.2023 at 14:00 Hrs.</b>
<b>7.</b>	Online Tender Purchase End Date	<b>05.06.2023 at 18:00 Hrs.</b>
<b>8.</b>	Last date for receipt of queries	<b>23.05.2023 at 18:00 Hrs.</b>
<b>9.</b>	Date of pre bid meeting	<b>25.05.2023 at 11:00 Hrs.</b>
<b>10.</b>	Online proposal Submission Start Date	<b>15.05.2023 at 14:00 Hrs.</b>
<b>11.</b>	Online proposal Submission End Date	<b>05.06.2023 at 18:00 Hrs.</b>
<b>12.</b>	Opening of Technical Bid	<b>07.06.2023 at 11:00 Hrs.</b>
<b>13.</b>	Financial Bid	<b>Subsequent date to be informed later.</b>
<b>14.</b>	Validity period of Proposal	180 Days
<b>15.</b>	Address of Communication	<b>Registrar Shri Vishwakarma Skill University,</b>

		<b>Plot 147, Sector 44, Gurugram Haryana</b>
<b>16.</b>	Contact Phone Numbers	<b>0124-2746800</b>
<b>17.</b>	E-mail Address	<b>tender@svsu.ac.in</b>

- Tender document can also be downloaded from University Website [www.svsu.ac.in](http://www.svsu.ac.in)
- # University reserved the right to change any Date, Time and condition of Tendering without assigning any reasons and reserve all the rights.
- Amendments to TENDER, if any, shall be published on e-procurement website <https://etenders.hry.nic.in> only and not in newspaper. The Shri Vishwakarma Skill University, Haryana reserves all the rights to accept or reject any or all tenders without assigning any reasons.

## **1.2.DISCLAIMER**

The information contained in this Tender document or subsequently provided to the bidders, whether verbally or in documentary or any other form by or on behalf of Shri Vishwakarma Skill University, Haryana is provided to bidder on the terms and conditions set out in this TENDER and such other terms and conditions subject to which such information is provided.

Information provided in this TENDER to the bidders is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and shall not be regarded as a complete or authoritative statement of law. The Shri Vishwakarma Skill University, Haryana accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

Shri Vishwakarma Skill University, Haryana also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance or any bidder upon the statements contained in this TENDER.

Shri Vishwakarma Skill University, Haryana may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this TENDER.

The issue of this TENDER does not imply that Shri Vishwakarma Skill University, Haryana is bound to select a bidder or to appoint the Selected Bidder, as the case may be, for the Consultancy and Shri Vishwakarma Skill University, Haryana reserves the rights to reject all or any of the Proposals without assigning any reasons whatsoever.

The bidder shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by Shri Vishwakarma Skill University, Haryana or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses shall remain with the bidder and Shri Vishwakarma Skill University, Haryana shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a bidder in preparation or submission of the Proposal, regardless of the conduct or outcome of the Selection Process.

## 2. Instructions to Bidders

### 2.1. Subject: IT/Network/OFC Laying work at SVSU, Dudhola, Palwal

Shri Vishwakarma Skill University invites online Bids (Technical bid and financial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer/Distributors/Agent for **IT/Network/OFC Laying work at SVSU, Dudhola, Palwal** with warranty period as stated in the Schedule and terms & conditions specified in the tender document.

Bidders can access tender documents on the website of the University and fill them with all relevant information and submit the completed tender document with Tender Fee and EMD amount online as per the schedule to <https://etenders.hry.nic.in>.

### 2.2. INSTRUCTION TO BIDDER FOR E-TENDERING

*Note: Following conditions shall over-rule the conditions stated in the tender documents, wherever relevant and applicable.*

#### 2.2.1. E-Tendering:

- 2.2.1.1. For participation in e-tendering module of Shri Vishwakarma Skill University, Haryana it is mandatory for prospective bidders to get registration on website <https://etenders.hry.nic.in>. Therefore, it is advised to all prospective bidders to get registration by making online registration fees payment at the earliest.
- 2.2.1.2. Tender documents can be downloaded from website <http://www.svsu.ac.in>. However, the bidders have to upload complete tender document online along-with deposit of EMD amount and Tender Document Fee + E-service fee and without EMD amount and Tender Document Fee + E-service fee bids shall not be accepted.
- 2.2.1.3. E-service/gateway charges shall be borne by the bidders.
- 2.2.1.4. As per the directions of the Controller of Certifying Authorities, Ministry of Communication and Information Technology, Government of India, a **Class III Digital Certificate** shall be required to bid for all tenders solicited electronically. If the bidder does not have such a certificate, it may be obtained from any of the registering authorities or certification authorities. Kindly note that it may take at least three-five business days for the issue of a digital certificate. Bidders are advised to plan their time accordingly. Shri Vishwakarma Skill University, Haryana shall bear no responsibility for accepting bids which are delayed due to non-issuance or delay in issuance of such digital certificate.
- 2.2.1.5. If bidder is bidding first time for e-tendering, then it is obligatory on the part of bidder to fulfil all formalities such as registration, obtaining Digital Signature Certificate etc. well in advance.
- 2.2.1.6. Bidders are requested to visit our e-tendering website regularly for any clarifications and/or due date extension or corrigendum.
- 2.2.1.7. Bidder must positively complete online e-tendering procedure at

<https://etenders.hry.nic.in>

**2.2.1.8.** Shri Vishwakarma Skill University, Haryana shall not be responsible in any way for delay / difficulties / inaccessibility of the downloading facility from the website for any reason whatsoever.

**2.2.1.9.** For any type of clarifications bidders/contractors can visit <https://etenders.hry.nic.in> and <http://www.svsu.ac.in>.

**2.2.1.10.** The bidder whosoever is submitting the tender by his Digital Signature Certificate shall invariably upload the scanned copy of the following.

**2.2.1.10.1.** TENDER cost + E-service Fee and EMD Amount.

**2.2.1.10.2.** Affidavits.

**2.2.1.10.3.** Authority Letter to Sign on behalf of bidder.

**2.2.1.10.4.** Authority Letter for use of Digital Signature.

**2.2.1.10.5.** Technical Bid with all relevant enclosures.

**2.2.1.10.6.** All documents to be submitted by the firms shall be duly attested by authorized person/gazetted officer/notary public in case these are copies of the original documents. No unattested documents shall be entertained.

The prospective bidders shall upload scanned self-certified copies of requisite documents as required in e-tendering process.

**2.2.1.11.** The Tender document cost+ E-Service Fee is to be deposited online by the bidder.

**2.2.1.12.** The tenders uploaded without/incomplete/partial EMD and tender fee + E-service fees shall be disqualified and proposal will not be accepted.

**2.2.1.13.** The EMD amount is to be deposited online by the bidder.

**2.2.1.14.** The tender documents fees shall not be refunded.

**2.2.1.15.** If the tenders are cancelled or recalled on any grounds, the Tender Document Fee and e-Service Fee shall not be refunded to the bidder.

**2.2.1.16.** No Proposal shall be accepted without valid TENDER cost and Earnest Money Deposit.

**2.2.2. Technical bid: -**

Bidders must positively complete online e-tendering procedure at <https://etenders.hry.nic.in>. They shall have to submit the documents as prescribed in the TENDER online on the website. The website/e-portal may accept a file sizing up to 10 MB; however, the bidders may submit their complete bids (with all the requisite documents) in multiple files.

**2.2.3. Financial bid: -**

Bidder must submit the Price/Financial bid document as per the format given in TENDER/available online and uploaded as per instructions therein. **Physical submission of price bid shall not be considered.** The financial bids of technically qualified bidders shall be opened online at the notified date. The bidder can view the financial bid opening date by logging into the website.

**2.2.3.1** On the due date of e-tender opening, the technical bids of bidders shall be opened online. Shri Vishwakarma Skill University, Haryana reserves the right for extension of due date of opening

of technical bid.

- 2.2.3.2 Shri Vishwakarma Skill University, Haryana reserves the right to accept or reject any or all tenders without assigning any reason whatsoever.
- 2.2.3.3 In case, due date for opening of tender happens to be a holiday, the due date shall be shifted to the next working day for which no prior intimation shall be given.
- 2.2.3.4 Any change/modification/alteration in the TENDER by the Bidder shall not be allowed and such tender shall be liable for rejection.

For amendment, if any, please visit <https://etenders.hry.nic.in> web site regularly. In case of any bid amendment and clarification, the responsibility lies with the bidders to notify the same from web site. The **Shri Vishwakarma Skill University, Haryana** shall have no responsibility for any delay/omission on part of the bidder.

### **3. TERMS and CONDITIONS**

- 3.1 Due date:** The tender has to be submitted online on or before the due date. The offers received after the due date and time shall not be considered. No application shall be received through e-mail/fax. The University shall not be responsible for any delay.
- 3.2 Tender Fee (Non-Refundable):** The Bidder shall submit a non-refundable tender fee online. The Technical Bid without Tender fee shall be considered UNRESPONSIVE and shall not be accepted. The tender fee shall not be returned/refunded to any Bidder in any circumstances. If the tenders are cancelled or recalled on any grounds, the Tender Document Fee and e-Service Fee shall not be refunded to the bidder.
- 3.3 Preparation of Bids:** The Technical and financial offer/bid shall be submitted online. The technical bid shall consist of all technical details along with commercial terms and conditions. The financial bid shall indicate item wise price for the items mentioned in the technical bid.

All documents to be submitted by the firms shall be duly attested by gazette officer/ notary public in case these are copies of the original documents. No unattested documents shall be entertained.

- 3.4 Earnest Money Deposit (EMD) (if applicable):** While submitting bid, the BIDDER shall deposit an amount mentioned in tender document as Earnest Money, with the Institute through the following instruments:
- 3.4.1** The Bidder shall submit an EMD amount online. The Technical Bid without EMD shall be considered UNRESPONSIVE and shall not be accepted. The EMD shall be refunded without any interest to the unsuccessful Bidder after the award of the Purchase Order. The Earnest Money Deposit (EMD) in other form viz., Pay Order/Cheque etc. shall not be accepted.
- 3.4.2** No interest shall be payable by the BUYER to the BIDDER on Earnest Money for the period of its currency.
- 3.5 Refund of EMD:** The EMD shall be returned to unsuccessful Bidders only after the award of Purchase Order. In case of a successful Bidder, EMD shall be returned after the submission of Performance Bank Guarantee.

EMD shall not be refunded if the order is not accepted. In case, the offer is accepted, but not honored by the Bidder, the EMD shall be forfeited. The EMD shall also be forfeited, if wrong information is furnished or any vital information is concealed in the tender document. Apart from it, the bidder shall be liable for any other action against him as may be considered necessary by the vice-chancellor.

If the tenders are cancelled or recalled on any grounds, the EMD shall be returned to the bidder.

- 3.6 Opening of the tender:** The bid shall be opened by a committee duly constituted for this purpose in the presence of Bidder's representative if available. Only one



representative shall be allowed to participate in the tender opening. Bid received without or incomplete Tender Fee or EMD shall be rejected outright. The technical bid shall be opened first, and it shall be examined by a technical committee (as per specification and requirement). The financial offer/bid shall be opened only for the offer/bid which are technically qualified as per the specification and shall be opened in the presence of the bidder's representatives subsequently for further evaluation. The Bidder if interested may participate on the tender opening Date and Time. The Bidder shall produce an authorization letter from their company to participate in the tender opening. The University may call bidders for demonstration and presentation of the equipment during technical evaluation. The cost for the demonstration shall be borne by the supplier and the University shall not pay any TA/DA for presentation/ demonstration. If any firm fails to successfully demonstrate the system quoted by them, the Bid of that firm shall not be considered. Also, SVSU may ask for sample of the offered item. In case the due date for opening of tender to be a holiday, the opening date shall be shifted to next working day for which no prior intimation will be given.

### **3.7 Performance Security:**

**3.7.1** Performance Bank Guarantee is mandatory.

**3.7.2** The Successful Bidder shall require submitting the performance security/Guarantee in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at the "Schedule" of the tender document within 21 days from the date of receipt of the purchase order and shall be kept valid for a period of 60 days beyond the date of completion of warranty period. The Performance security in other form viz., FD/Term Deposit Receipt etc. shall not be accepted.

**3.7.3** The Successful Bidder shall submit performance security/Guarantee as prescribed above to be received in the office Registrar, Stores & Purchase Section on or before 21 days from the date of issue of order acknowledgement. The performance bank guarantee to be furnished in the form of Bank Guarantee as per Annexure-V of the tender documents, for an amount covering 5% of the purchase order value.

**3.7.4** The Performance Bank Guarantee shall be established in favour of Shri Vishwakarma Skill University," through any Bank situated at Gurugram or outstation with a clause to enforce the same on their local branch at Gurugram. Performance Bank Guarantee shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded, or agreed to between the successful Bidder and the purchaser under the terms and conditions of acceptance to tender.

**3.7.5** If the supplier shall not submit the performance security within 21 days from the date of receipt of purchase order and if there is delay in submission of performance security, purchase order may be cancelled. The competent authority may accept the performance security after the above-mentioned deadline of 21 days' subject to submission of justification by the Bidder, however the decision of the competent authority is final in this regard.

**3.7.6** The successful Bidder is entirely responsible for due performance of the contract in all respects according to the speed, intent and meaning of the

terms and conditions and specification and all other documents referred to in the acceptance of tender.

**3.7.7** The performance bank guarantee shall be kept valid during the period of contract.

**3.8 Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

**3.8.1** For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

**3.8.2** If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions 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.

**3.9 Risk Purchase Clause:** In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

**3.10 Packing Instructions:** Each package shall be marked on three sides with proper paint/indelible ink the following:

**3.10.1** Item Nomenclature

**3.10.2** Order/Contract No.

**3.10.3** Country of Origin of Goods

**3.10.4** Supplier's Name and Address

**3.10.5** Consignee details

**3.10.6** Packing list reference number

**3.11 Delivery, Execution and Documents:** Delivery of the goods and execution of the work shall be made within a maximum of 08-10 weeks from the date of placement of purchase order at Shri Vishwakarma Skill University, Main Campus, Village Dudhola, District Palwal or at that place to be informed by the SVSU. The delivery period can be extended by the Registrar, Shri Vishwakarma Skill University only in exceptional cases on written request of the Supplier giving reason/explaining circumstances due to which delivery period could not be adhered to.

**3.11.1** 4 Copies of the Supplier invoice showing contract number, goods description, quantity

**3.11.2** unit price, total amount.

**3.11.3** Insurance Certificate if applicable.

**3.11.4** Manufacturer's/Supplier's warranty certificate.

- 3.11.5 Inspection Certificate issued by the nominated inspection agency if any.
- 3.11.6 Certificate of Origin (if possible, by the beneficiary).
- 3.11.7 Two copies of the packing list identifying the contents of each package.
- 3.11.8 Two copies of the List of the deliverables installed at the site.

**3.12 Liquidated Damages (L.D)/Penalty for Non-execution of Order:** The installation shall have to be completed within mentioned time (clause 3.11) from the issue of the supply order. If the bidder fails to install and demonstrate the material on time then the Registrar will be competent to impose penalty at 15 per week of the purchase order or such other amount as the Registrar, SVSU may decide till the supply/work remains incomplete, provided that the entire amount of penalty shall not exceed 10% of the total amount of Purchase order. After the lapse of 15 days beyond the stipulated/extended period, it shall be the discretion of the University to cancel the supply/work execution order at the risk and the cost of the Supplier/contractor. Besides, forfeiture of the Earnest Money, the University shall be at liberty to take such action as recovery of compensation to the extent of 10% of the amount of the supply/contract order, blacklisting, etc. An appeal against this penalty shall, however, lie with the Hon'ble Vice-Chancellor (VC), Shri Vishwakarma Skill University, Gurugram, whose decision shall be final.

**3.13 Prices:** The price shall be quoted in net per unit (after breakup) and must include all packing, forwarding, freight, insurance charges, loading, unloading and delivery charges etc. may be quantified in terms of amount. These charges may not be payable against such vague statements as “packing, forwarding, freight, insurance charges, loading, unloading and delivery charges etc. extra”. The offer/bid shall be exclusive of GST, which shall be paid by the purchaser as applicable. However, the percentage of GST shall be clearly indicated. **Charges not mentioned in the quotation/tender shall not be paid.**

**3.14 Rate contract with GEM or DS&D (Haryana):** If the bidder or their Principals are on rate contract with **GEM or DS&D (Haryana)**, this shall be mentioned specifically in the offer and a photocopy of the same, duly attested, may be appended.

**3.15 Progress of Supply:** Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:

- 3.15.1 Quantity offered for inspection and date.
- 3.15.2 Quantity accepted/rejected by inspecting agency and date.
- 3.15.3 Quantity dispatched/delivered to consignees and date.
- 3.15.4 Quantity where incidental services have been satisfactorily completed with date.
- 3.15.5 Quantity where rectification/ repair/ replacement effected/ completed on receipt of any communication from consignee/ Purchaser with date.
- 3.15.6 Date of completion of entire Contract including incidental services if any
- 3.15.7 Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified).

**3.16 Resolution of Disputes:** The dispute resolution mechanism shall be as follows:

**3.16.1** In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. An arbitrator shall be appointed with the mutual consent of both parties. The award of the arbitrator so appointed shall be final, conclusive, and binding on all parties to this order.

**3.16.2** In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (3.16.1) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with the provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

**3.16.3** The venue of the arbitration shall be the place from where the order is issued.

**3.17 Right to Use Defective Goods:** If after delivery, acceptance, and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

**3.18 Transfer and Subletting:** The supplier shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

**3.19 Supplier Integrity:** The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

**3.20 Installation & Demonstration:** The supplier is required to do the installation and demonstration of the equipment within 5 week of the arrival of materials at the SVSU, Dudhola, Palwal or site of installation, otherwise the penalty clause shall be the same as per the supply of materials. In case of any damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier shall settle his claim with the insurance company as per his convenience. SVSU shall not be liable to any type of losses in any form.

**3.21 Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. In case of orders placed

on FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the insurance shall be up to SVSU, Palwal Campus.

### **3.22 Warranty:**

**3.22.1** Warranty period shall be (as stated at “Schedule “of this tender) from date of invoice in case of material and overall project warranty of 2 years shall start from the date of commissioning/running at SVSU. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty shall be comprehensive on site.

**3.22.2** The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall arrange to repair or replace the defective goods or parts within 10 days free of cost in SVSU Palwal Campus. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 10 days. If the supplier having been notified fails to remedy the defects within 10 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier’s risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.

**3.23 Governing Language:** The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.

**3.24 Applicable Law:** The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction. In case of dispute with respect to this tender, the place of jurisdiction shall be Gurugram/Palwal, Haryana.

### **3.25 Notices:**

**3.25.1** Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party’s address.

**3.25.2** A notice shall be effective when delivered or on the notice’s effective date, whichever is later.

**3.26 Taxes:** Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.

**3.27 Payment:** For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at SVSU, Palwal Campus in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 3.7 of tender terms and conditions.

**3.28 User list:** Brochure detailing technical specifications and performance, list of industrial and Government educational establishments where the items enquired has been supplied by the Bidder has undertaken such work during last three years must be provided.

**3.29 Manuals and Drawings:**

**3.29.1** Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as shall enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.

**3.29.2** The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.

**3.29.3** Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.

**3.30 Application Specialist:** The Bidder shall mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to Annexure-VI)

**3.31 Site Preparation:** The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute shall arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier may visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

**3.32 Spare Parts:** The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and In the event of termination of production of the spare parts; Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested. Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares. Other spare parts and components shall be supplied as promptly as possible but, in any case, within six months of placement of order.

**3.33 Defective Equipment:** If any of the equipment supplied by the Supplier is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the faculty/expert committee (constituted by The Registrar/Dean Academic) shall have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Supplier with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 7 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, SVSU may consider "Banning" the supplier.

No payment shall be made for rejected material nor shall the Supplier be entitled to claim for such items. Rejected items shall be removed by the Supplier from the site within two weeks of the date of rejection at his own cost. In case they are not removed they shall be auctioned at the risk and responsibilities of the Supplier without any further notice.

**3.34 Termination for Default:**

**3.34.1** The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

**3.34.2** If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser.

**3.34.3** If the Supplier fails to perform any other obligation(s) under the Contract.

**3.34.4** If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

**3.34.5 For the purpose of this Clause:**

**3.34.6** "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

**3.34.7** "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidder (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

**3.34.8** In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

**3.35 Acceptance or Rejection of bids:** The committee duly constituted for evaluation reserves the rights to reject or accept the any bid based on -not fulfilling the

eligibility criteria, Also, University reserves the right to enhance quantity without any advance notice.,

- 3.36 Training of Personnel:** The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment as per Annexure-X
- 3.37 Compliancy certificate:** This certificate must be provided indicating conformity to the technical specifications.
- 3.38 Evaluation of Offer:**
- 3.38.1** L1 shall be decided on the basis of the total as quoted in the price bid.
- 3.38.2** Offer which deviates from the vital conditions (as illustrated below) of the tender shall be rejected:
- 3.38.2.1** Non submission of complete offers.
- 3.38.2.2** Receipt of offers after due date and time and or by email / fax (unless specified otherwise).
- 3.38.3** In case any BIDDER is silent on any clauses mentioned in this tender document, the Institute shall construe that the BIDDER had accepted the clauses as per the invitation to tender.
- 3.38.4** No revision in the terms and conditions quoted in the offer shall be entertained after the last date and time fixed for receipt of tenders.
- 3.39 Negotiation of Rates:** Regarding negotiations of rates, policy issued by the State Government vide G.O. No.2/2/2010-4-IB-II dated 18.06.2013, G.O. No.2/2/2010-4-IB-II dated 16.06.2014, G.O. No.2/2/2010-4-IB-II dated 09.02.2015 shall be applicable. The policy guidelines are available at <https://haryanaeprocurement.gov.in> on home page under section as Tender Forms.”
- 3.40** The Financial bids of only those bidders shall be opened who qualify on the basis of their Technical Bids. The date & time of opening of the financial bids shall be intimated in the due course.
- 3.41** The offer without prescribed earnest Money, tender Fee & E-Service fee is liable to be summarily rejected. The deficiency in the remaining documents and tender requirement can be made subject to the decision by the competent authority of the university.
- 3.42** Any company/firm/dealer/manufacture blacklisted by Central/State Government/Autonomous organization are not entitled to submit the tender. If it is submitted, it shall be rejected, and Earnest Money Depositor/and Performance security shall be seized, and legal action shall be taken against them.
- 3.43** Any or all tenders can be rejected by the Registrar, SVSU on the recommendation of tender committee without assigning any reason at any stage. It cannot be challenged in any court.
- 3.44** Tenders which do not fulfil any or all of the above conditions or incomplete, are liable for rejection.
- 3.45** Bidder shall abide to all terms and conditions stipulated in tender document for which he has to submit the affidavit.



- 3.46** The foreign manufacturer or their Indian representative shall ensure a proper after sales service as per requirement from time to time, against the guarantee/warranty clause as per the terms and conditions agreed. Any negligence on this account shall be the sole responsibility of foreign bidder and liability for compensation shall be fixed up by the Department.
- 3.47** Legal action may be initiated against such Bidder in case any of the information submitted by the Bidder is found to be false at any stage of the contract.
- 3.48** Model Clause for Land Border Sharing Countries with India: As per the Order of Ministry of Finance, Department of Expenditure, Public Procurement Division. F.No. 6-18-2019-PPD Date 23/07/2020, any bidder from such countries sharing a land border with India shall be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority, Specified in Model Clause and Certificate Annex –XVI.

The Competent Authority for the purpose of Registration under this order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

Bidders can read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India as per the Order of Ministry of Finance, Department of Expenditure, Public Procurement Division. F.No. 6-18-2019-PPD Date 23/07/2020.

A certificate for the same shall be submit by the bidder.

#### **4. Pre-qualification Criteria**

All bids shall primarily be evaluated on the basis of Prequalification Criteria. The Evaluation Committee shall evaluate the proposals, only those who qualifies all prequalification criteria, are eligible for evaluation of financial bids.

S. No.	Basic Requirement	Specific Requirements	Documents Required
(i)	Legal Entity	<p>The bidder shall be a Central/State government organization/PSU or public or private company. The company shall be in existence for more than 5 years as on 31.03.2023.</p> <p>The bidder shall also have their registered office in India. The company must be registered with appropriate authorities for all applicable statutory duties/taxes.</p>	<p>Valid documentary proof of:</p> <ul style="list-style-type: none"> <li>• Certificate of incorporation</li> </ul> <p>Valid documentary proof of:</p> <ul style="list-style-type: none"> <li>• Central Sales Tax/VAT number.</li> <li>• Service Tax registration number.</li> <li>• Income Tax registration/ PAN number</li> </ul>
(ii)	Annual Turnover	The bidder shall have an annual turnover of at least Rs. 5 Crore (Each year) for the last three financial years (2019-20;2020-21;2021-22) from IT & ITES business.	Certified copy of the audited statement of accounts (PL Account & Balance Sheet, Certificate from Chartered Accountant, as a proof of annual turnover stated.
(iii)	Net Worth, profitability and solvency	The bidder company shall have positive net worth at least for last three financial years and solvency certificate of 80% of tender value.	Submit copy of ITR for the last three financial year And Certified copy from the CA
(iv)	Certifications	The bidder shall be ISO 9001 & 27001 Quality certifications from an accredited and internationally reputed / renowned firm.	Copies of certificates
(v)	Technical Capability	a.The bidder shall have successfully completed atleast three (3) OFC Laying or Networking project in Universities/ Institutes/ Public/ Private sector in India in last five years.	Copy of the Work Order along with completion certificate or proof of payment from the competent authority. Also share address, mobile number & email of clients.  Documentary evidence from bidder must be submitted.

		b.The bidder shall have atleast 10 numbers certified technical personnel on its payroll.	
(vi)	OEM Criteria	OEM shall have direct presence in India for at-least last 5 years. The active components shall be from same OEM (except firewall) and passive components shall be preferably from same OEM. In case, passive components are not from the same OEM, bidder must submit the separate OEM certificate for different components along with list of devices.	Submit OEM certificate for specific to tender.
(vii)	Blacklisting	Bidder must not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Govt. of India/ State Govt.	Affidavit duly notarized to be submitted.
(viii)	Consortiums/JV	Consortiums/JV bidding is not allowed.	Self-declaration on organization letter head.

## **5. Scope of Work**

The Scope of Work (SoW) for this tender includes:

1. Before bidding, the bidder must visit to inspect the site with technical staff of the University to fully acquaint himself about the site conditions with regard to accessibility of site, nature, and the extent of ground, working conditions including/stacking of materials, installation of T & P etc. required, conditions affecting accommodation and movement of labour etc. required for the satisfactory execution of the work. No claim, whatsoever, on this account shall be entertained by the University. Bidders needs to submit the declaration on letter head.
2. Supply & laying (underground at approx. 2-meter depth) of HDPE pipe for OFC and laying of OFC in the pipes.
3. The manholes/chambers must be minimum 6 inches above to the surrounding ground level.

4. Provision of splicing of OFC cable, Network Switches, fixing of patch panel including suitable connectors, Jointing box, Outdoor inspection chambers, Route marker etc.
5. Complete Installation, testing & commissioning of Network switches, HDPE Pipes, Optical Fiber Cable, Jointing and Termination of OFC complete (includes all items of BOQ) all in respect to meet Network requirement.
6. Connecting the OFC in topology with end-to-end connectivity for each block/building.
7. All materials and equipment's supplied shall be new and suitable in every respect for reliable operations under tropical conditions.
8. The network connectivity (completed in all aspects) needs to be implemented to Constructed buildings (5.1.1) and only HDPE pipe laying needs to be done for unconstructed buildings (5.1.2) with proper marking and termination at the building side end (like pipe capping, covering etc. to avoid blockage of the pipe).
9. The active components shall be from same OEM and passive components shall be preferably from same OEM. In case of passive components, if components are not from the same OEM, bidder must submit the separate OEM certificate for different components along with list of devices.
10. The payment against the bill of passive components (5.2.2) shall be done as per the actuals as the mentioned quantities in the scope are for estimate only.
11. The bidder must attach the list of the devices that shall be supplied and installed along with the model number and specification of the device and compliance sheet of matching the specifications.
12. All the accessories required for commissioning shall be ISI mark.
13. The firewall to be installed must have features of connecting the users based on username and password allotted to the concerned users and these credentials shall not be transferable to the other user or device.
14. Arrangements for handling, loading/ unloading of pipes shall be done by the bidder. Storage space may be provided by the SVSU for storing the components.
15. Cleaning of the pipes before the cable laying is necessary to remove any obstruction.
16. Route marker with pillar marking shall be provided at the particular interval.
17. Implementation of Network monitoring tools, which can be managed of entire network devices.
18. The Bidder must provide onsite training for at least 3 days to a team of SVSU team for managing the OFC backbone network System.
19. Network layout diagram with work plan report shall be provided before and after complete task.

20. Testing of OFC cable by testing the connectivity.

21. The Bidder shall give a Compliance certificate after complete work.

22. All the civil work is in the scope of bidder.

### **5.1 List of Buildings for OFC Inter-Connectivity**

#### **5.1.1 Constructed Buildings**

<b>S. No</b>	<b>OFC Station Name</b>
1	SVSU-Gate (3 nos.)
2	Girls Hostel
3	Sr. Admin Residence
4	VC Residence
5	Electric Sub (1 nos.)
6	Admin Block
7	Academic Blocks (6 nos.)
8	Central Library Block
9	Center of Excellence
10	Auditorium Block
11	Boys Hostel
12	CSA Block
13	Feeder School
14	Stadium Block
15	Gymnasium Block
16	Transit Accommodation

#### **5.1.2 Unconstructed Buildings**

<b>S. No</b>	<b>OFC Station Name</b>
1	Shopping Complex
2	Health Center
3	Guest House
4	Community Center
5	Electric Substations (3 nos.)

### **5.6 Block wise requirement of Access Point**

<b>Sr. No.</b>	<b>Building Name</b>	<b>AP Requirements</b>
1	Admin Block	40
2	Girls Hostel (Common Room Area)	6
3	Boys Hostel (Common Room Area)	6
4	Transit Accommodation	16
5	Gymnasium Block	6
6	VC Residence	3
7	Stadium Block	10
8	CSA Block	3
9	Feeder School	16
10	Swimming Pool Block	6
11	Sr. Admin Residence (one Block)	2
12	Electric Substation	6

### **5.2 Scope Requirement**

Any accessories or components required to make the network active and running in addition to the below mentioned items shall be arranged by the bidder with no additional cost to SVSU.

#### **5.2.1 Active Components**

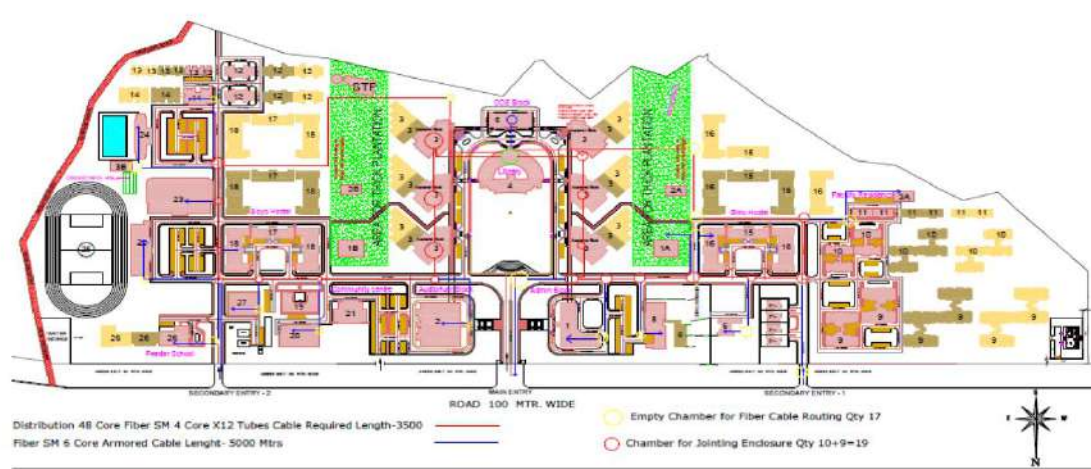
<b>S No</b>	<b>Product Description</b>	<b>Unit</b>	<b>Qty</b>
1	Core Switch- As per Technical Specs	Nos	2
2	Distribution Switch - As per Technical Specs	Nos	2
3	Access Switch - As per Technical Specs	Nos	27
4	1G SFP Module SM, LC	Nos	120
5	Firewall - Security Appliance with Protection License (36 Months)	Nos	1
6	Access Point with Cloud Based Controller	Nos	120

#### **5.2.2 Passive Components**

<b>S No</b>	<b>Product Description</b>	<b>Unit</b>	<b>Qty</b>
1	Network Monitoring Software/Tool	Nos	1

2	Supply of 48 Core Single Mode Armored Distribution OFC Cable (4 Core X 12 Tube)-As per Technical Specs	Mtrs	4000
3	Supply of 6 Core Single Mode Armored OFC Cable-As per Technical Specs	Mtrs	5000
4	Fiber Single Mode LIU- LC Type 12 Ports- with Pigtails, Coupler, Spice Tray -As per Technical Specs	Nos.	25
5	Fiber Single Mode LIU- LC Type 48 Ports, with Pigtails, Coupler, Spice Tray-As per Technical Specs	Nos.	4
6	Optical Fibre Patch Code - LC type (1 meter)- Single Mode, As per Technical Specs	Nos.	120
7	CAT6A Cable Bundle, LSZH (305 meter), As per Technical Specs	Boxes	32
8	CAT6 Patch Panel (24 port)- un-Loaded, As per Technical Specs	Nos.	25
9	CAT6 Information Outlet - As per Technical Specs	Nos.	200
10	CAT6 Patch Cord LSZH- 1Mtr -As per Technical Specs	Nos.	150
11	CAT6 Patch Cord LSZH- 2Mtr -As per Technical Specs	Nos.	100
12	CAT6 Patch Cord LSZH- 5Mtr -As per Technical Specs	Nos.	50
13	CAT6 Patch Cord LSZH- 10Mtr -As per Technical Specs	Nos.	50
14	CAT6 RJ-45 Modular Plug for Wi-fi End IP-20-As per Technical Specs	Nos.	150
15	Wall Mount Rack (12U) Size 550X600MM, With Horizontal PDU 6 Sockets 1 Nos, PVC Cable manager -1U Qty 1Nos., Hardware (Pkts of 20) Qty 2 Nos. FAN 1 Nos., 1) As per Technical Specs	Nos.	25
16	Floor Standing Network Rack (42U) Size 800X800MM, With PDU 12 Sockets X2 Nos., Hardware (Pkts of 20) 6Nos.PVC Cable managers 1U X 6 Nos, with all required accessories, As per Technical Specs	Nos.	1
17	HDPE pipe (75 mm) with nylon rope inside - As per Technical Specs	Mtrs	6000
18	HDPE Pipe Coupler 75 mm -As per Technical Specs	Nos.	60
19	PVC Conduit 32MM ISI mark with All Accessories (Bend, Junction-T, Sleeves, Screw, Etc.)	Mtrs	3450
20	PVC Hard Industrial Flexible Pipe 40 MM	Mtrs	250
21	Fiber Route Marker	Nos.	60
22	Fiber Jointing enclosure 48 Core	Nos.	25
23	Digging Charges as per site requirement for HDPE Pipe	Mtrs	4500
24	Creation of Chambers outside building Size (600X600X800MM Depth with Brick and Cemented)	Nos.	40
25	DTX OLT Testing For Fiber Cores	Cores	644
26	DTX Copper Scanning CAT6/CAT6A	Nos.	150
28	USB Wi-Fi Adapter/Dongle	Nos.	100

### 5.3 Tentative OFC and HDPE Laying Diagram



5.2.1 SVSU is planning the OFC laying in such a way that 48 (multi tube) core cable may be laid as main line.

5.2.2 Two rings of 48 core (multi tube) cable may be laid on each side left and right connecting the building of each side to main control center at Central Library Block.

5.2.3 OFC (6 core OFC cable) connection from main 48 core cable to inside the building

5.2.4 Minimum four (4) cores must be dropped with splicing of all four at each block (mainly constructed block).

5.2.5 OFC laying must be done in both Ring and Star type terminology.

### 5.5 Detailed ITEM-WISE Specifications

- a) Laying of OFC cable from the IT Control Center at First Floor, Central Block to all other blocks.
- b) Underground Laying HDPE pipe (at approx. 2-meter depth) with nylon rope inside for cable pulling with chambers/manholes of sufficient size at required locations as per the requirement of the work.

#### ITEM-1: Technical Specification of 24-port 1/10G Base-X/T Layer-3 Stackable Managed Switch

S. No.	Technical Specifications	
1	<b>Physical Interfaces</b>	12 # 1/10G Base-X Fiber SFP+ Ports, 12 # 1/10G Base-T Copper Ports, Ethernet: Out-of-band 1G port (Front), Console: RJ45 RS232 (Front), Console: Mini-USB (Front), Storage: USB (Front), Half-width 1-unit 1U rack mount
2	<b>CPU/ Memory</b>	CPU: 800 MHz
		RAM: 1 GB



		Packet buffer memory: 32 MB
		Flash: 256 MB
3	<b>Performance</b>	Stack height: 8 switches, Switching fabric: 480 Gbps Line-Rate (non-blocking fabric), Throughput: 357 Mpps, Forwarding mode: Store-and-forward, Address database size: 16,000 MAC addresses (48-bit MAC address), Number of VLANs: 4,093 (IEEE 802.1Q) simultaneously, Number of multicast groups= 2K IPv4, Number of multicast groups= 2K IPv6, ARP/NDP= 2K, Number of LAGs (802.3ad): 128 LAGs with up to 8 ports per group, Number of hardware queues for QoS: 8 (Standalone), Number of routes: 512 IPv4 Unicast routes, Number of routes: 256 IPv6 Unicast routes, Jumbo frame support: up to 9K packet size, Mean time between failures (MTBF): 192,898 hours (~22 years), Flow=416 samplers, 416 pollers, 8 receivers
4	<b>L2 Services</b>	Protocol based VLAN, IP Subnet, IPX, ARP, Subnet based VLAN, MAC based VLAN, Voice VLAN, Private Edge VLAN, Private VLAN, Guest VLAN, Double VLAN Tagging (QoQ), GARP with GVRP/GMRP, MVR (Multicast VLAN Registration), Multiple Registration Protocol (MRP), Multicast VLAN Registration Protocol (MVRP), LAG Hashing, LAG Member Port Flaps Tracking, UDLD support, Distributed Link Aggregation, Storm Control, Link Dependency, Spanning Tree Protocol, Per VLAN STP (PVSTP) with FastUplink and FastBackbone, Per VLAN Rapid STP (PVRSTP), STP Loop Guard, STP Root Guard, BPDU Guard, STP BPDU Filtering, STP BPDU Flooding, IGMP v2/v3 Snooping support, MLD v1/v2 Snooping support, Expedited Leave, Function, Static L2 Multicast Filtering, MLDv1/2 Snooping Support, IGMPv2/3 Snooping Support
5	<b>L3 Services</b>	IGMP Proxy, MLD Proxy, Any Source Multicast (ASM), Source Specific Multicast (SSM), Multicast streams routing between subnets, VLANs, Multicast Static Routes (IPv4, IPv6), DVMRP, Neighbor discovery (IPv4, IPv6), PIM-DM (IPv4, IPv6), PIM-SM (IPv4, IPv6), PIM multi-hop RP support, IPMC replication (hardware support), DHCP Client (IPv4, IPv6), DHCP Server (IPv4, IPv6), DHCP Snooping (IPv4, IPv6), DHCP/ BootP Relay (IPv4, IPv6), DHCP options 66, 67, 150, and 55, 125, Static Routing (IPv4, IPv6), Port based Routing, ECMP Static Routing, Port Based Routing, VLAN Routing, RIP v1 and v2, OSPF v2 and v3, OSPF Flood Blocking, Route Redistribution, VRRP, VRRP Route/Interface Tracking, Loopback Interfaces, Tunnel interfaces, Router Discovery, IP Helper, IP Source Guard, IP Event Dampening, ECMP, Proxy ARP, Multinetting, ICMP v4 and v6, IPv4/IPv6, DNS v4 and v6, IPv6 Routing, Configured v6-over-v4 tunnels, Automatic (6to4) tunnels
6	<b>QoS</b>	IEEE 802.1p CoS, DiffServ QoS, WRED (Weighted Deficit Round Robin), Single Rate Policing, Strict Priority queue technology, Auto-VoIP, iSCSI Flow, cceleration IP DSCP, IP Precedence, IP TOS, L3 IPv6 Flow Label, Interface Traffic Shaping, PHB Support, Minimum Bandwidth per-interface
7	<b>Security</b>	Broadcast, Multicast and Unicast Network Storm Protection, CPU Protection, DoS attack protection, ICMP throttling, Management ACL, Radius accounting, TACACS+, L2/L3/L4 Access Control List (ACL), MAC, IPv4, IPv6, TCP, UDP ACL, Protocol based ACL, ACL over VLAN, Dynamic ACL, IEEE 802.1x Radius Port Access Authentication, 802.1x

		MAC Address Authentication Bypass (MAB), Port Security, Dynamic ARP Inspection, MAC Filtering, Port MAC Locking
8	<b>IEEE Network Protocols</b>	IEEE 802.3 10Base-T, IEEE 802.3 Ethernet, IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-T, IEEE 802.3ab 1000BASE-T, IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX, IEEE 802.3ae 10-Gigabit Ethernet, IEEE 802.3ad Trunking (LACP), IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED), IEEE 802.1D Spanning Tree (STP), IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP), IEEE 802.1p Quality of Service, IEEE 802.1Q VLAN tagging, IEEE 802.1v protocol-based VLAN, IEEE 802.1X Radius Network Access Control, IEEE 802.3x flow control, GMRP — Dynamic L2 multicast registration, GVRP — Dynamic VLAN registration, GARP -Generic Attribute Registration Protocol
9	<b>Management</b>	ISDP (Industry Standard Discovery Protocol), Out of band Management, 802.1ab LLDP and LLDP-MED, SNMP v1, v2 and v3, RMON 1, 2, 3, 9, sFlow, Command Line Interface (CLI), Web-based graphical user interface (GUI), Admin access control via Radius and TACACS+, Telnet, IPv6 Management, Dual Software (Firmware) images, Dual Configuration file (Text-based), Radius accounting, Malicious Code Detection, SNMP, XMODEM, Port Mirroring, Cable Test Utility, SSH v1/v2, SSL/HTTPS and TLS v1.0 for web-based access, File Transfer (uploads, downloads) through TFTP/HTTP, SCP/ SFTP/ HTTPS, Syslog, Non-disruptive Config Management, Remote Port Mirroring (RSPAN), Persistent log supported
10	<b>Network Traffic</b>	Access Control Lists (ACLs) L2 / L3 / L4
		Time-based ACLs
		ACL over VLANs
		IPv6 RA Guard Stateless Mode
		Network Authentication Successive Tiering
		802.1x MAC Address Authentication Bypass (MAB)
11	<b>LEDs</b>	Per port: Speed, link, activity
		Power, Fan, Stack Master, Stack ID
12	<b>Environmental</b>	Operating Temperature: 32° to 122°F (0° to 50°C)
		Operating Humidity: 90% maximum relative humidity, non-condensing
		Storage Temperature: – 4° to 158°F (–20° to 70°C)
		Storage Humidity: 95% maximum relative humidity, non-condensing
13	<b>Certifications</b>	CE mark, commercial
		FCC Part 15 Class A, VCCI Class A
		Class A EN 55022 (CISPR 22) Class A
		Class A C-Tick
		EN 50082-1
		EN 55024
		CSA certified (CSA 22.2 #950)
		UL listed (UL 1950)/cUL IEC 950/EN 60950
14	<b>Warranty and Support</b>	True Hardware replacement warranty- upto the EOL of the device.
		Lifetime free latest firmware support
		Replacement with New Product Only. No refurbished Products.

**ITEM-2: Technical Specification of 24-port 10G SFP+ with 2x10G Copper Shared ready uplinks, Layer-3, Stackable Managed Switch**

Sr.no	Specification
1	Shall support 24port 10Gbps Fiber SFP+ or better
2	Shall support Mini-USB console port to facilitate ease of use. Or an external convertor module shall be supplied
3	Shall have built-in USB A port to facilitate upload and download of configuration file via pen drive
4	Shall support Minimum CPU 800 MHz, 1GB RAM with 256MB Flash or higher.
5	Shall support minimum of 8 units to be stacked in a single group or an external stacking module shall be supplied.
6	Shall have Switching fabric more that 480Gbps & Throughput of 357 Mpps or higher.
7	Shall have min 2000 multicast groups.
8	Shall be preconfigured to work with AVoIP devices.
9	shall support Switch Mean time between failures (MTBF): 968,447 hours or better
10	Shall be capable to configure sFlow=416 samplers, 416 pollers, 8 receivers
11	shall support Advanced Layer 2, Layer 3 and Layer 4 feature set or better
12	Shall natively support Policy Based Routing, RIP, VRRP, OSPF and PIM or additional license shall be supplied.
13	Shall support Expedited Leave Function or any other equivalent
14	Shall support Multicast streams routing between subnets, VLANs
15	Shall Natively support Voice VLAN with SIP, H323 and SCCP protocols detection and LLDP-MED IP phones automatic QoS and VLAN configuration
16	Shall have IGMP Plus to allow AVoIP devices (TX/Encoders and RX/Decoders) to be connected across multiple switches without lag.
17	Shall natively manage broadcast, Multicast and Unicast Network Storm Protection, CPU Protection, DoS attack protection
18	Shall be CE mark, commercial, FCC Part 15 Class A, VCCI Class A, Class A C-Tick, Class A EN 55022 (CISPR 22) Class A, EN 50082-1, EN 55024, CSA certified (CSA 22.2 #950), UL listed (UL 1950)/cUL IEC 950/EN 60950 compliant
19	Shall have ISO certified ODM vendor and certificates shall be shared.
20	Shall support Lifetime Warranty on hardware of the product.
21	Shall support Lifetime firmware upgrade without any charges.
22	Shall support replacement with New Product Only No repair or refurbished Products.
23	True Hardware replacement warranty- upto the EOL of the device.
24	Lifetime free latest firmware support
25	Replacement with New Product Only. No refurbished Products.

**ITEM-3: Technical Specification of L2 24-port 1000base-T Gigabit PoE+ Smart Managed Switch**

S.No	Technical Specifications	
1	<b>Physical Specifications</b>	24 # 10/100/1000 Base-T auto-sensing PoE+ ports, 4 dedicated 100/1000 Base-X Fiber SFP ports

2	<b>Performance Specification</b>	Bandwidth: 56 Gbps non-blocking, Packet forwarding rate (64 byte packet size): 41.67 Mpps, Mean Time Between Failures (MTBF): 1,071,000 hours or more, Forwarding modes: Store-and-forward, 8 Priority queues Priority queuing: Weighted Round Robin (WRR), MAC Address database size: 16,000 media access control (MAC) addresses, VLAN: 256, 512 Multicast groups, 32 Static Routes, 15 Routed VLANs, 512 ARP Cache entries, 256 DHCP snooping bindings, Packet buffer: 1.5MB, Jumbo frame: 10K, Power Consumption: 439W Max, PoE budget: 380W
3	<b>IEEE Network Protocols</b>	IEEE 802.3 Ethernet, IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-T, IEEE 802.3ab 1000BASE-T, IEEE 802.1Q VLAN Tagging, IEEE 802.3x full-duplex flow control, IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX, IEEE 802.3ad Trunking (LACP), IEEE 802.1ab LLDP with ANSI/TIA-1057 (LLDP-MED), IEEE 802.1p Class of Service, IEEE 802.3 af (PoE), IEEE 802.3 at (PoE Plus), IEEE 802.1D Spanning Tree (STP), IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP), IEEE 802.1X Radius network access control
4	<b>Network Security and Traffic</b>	IEEE 802.1x, Guest VLAN, RADIUS based VLAN assignment via .1x, MAC-based .1x, Network Storm Protection, Broadcast, Unicast, Multicast Protection, Access Control Lists (ACLs) L2 / L3 / L4, IP-based ACLs (IPv4 and IPv6), MAC-based ACL, TCP/UDP-based ACL, MAC lockdown, MAC lockdown by the number of MACs, IEEE 802.1x Radius Port Access Authentication, Port Security, PoE Timer, PoE Power Management
5	<b>L2 Services</b>	IEEE 802.1Q VLAN Tagging, Video VLAN, Voice VLAN, IEEE 802.3ad - LAGs - LACP ( (16 LAGS with max. of 8 ports in each LAG)), Broadcast Storm Control, IGMP Snooping (v1, v2 and v3), MLD Snooping Support (v1 and v2), IGMP Snooping queriers, Block unknown Multicast
6	<b>L3 Services</b>	Static Routing, VLAN Routing, DHCP Client, DHCP Snooping
7	<b>Network Monitoring and Discovery Services</b>	802.1ab LLDP, RMON 1,2,3,9
		SNMP V1, V2, V3
8	<b>Quality of Service (QoS)</b>	Access Lists, L2 MAC, L3 IP and L4 Port ACLs, Ingress rate limiting, Egress rate limiting, Support for IPv6 fields, Diff Serv QoS, IEEE 802.1p COS, Dst MAC and IP, IPv4 and v6 DSCP, IPv4 and v6 TOS, WRR (Weighted Round Robin), Strict Priority queue technology, Auto-VoIP, Auto Video, Port Mirroring

9	<b>Management</b>	Password management, Configurable Management VLAN, Admin access control via Radius and TACACS+, Web-based graphical user interface (GUI), Remote/Cloud Manageability, Windows-based application for multiswitch management, IPv6 management, Dual Software (firmware) image, Dual Configuration file, SNTP client over UDP port 123, SNMP v1/v2, SNMP v3 with multiple IP addresses, RMON 1/2/3/9, Port Mirroring, Many to One Port Mirroring, Cable Test utility, SSL/HTTPS and TLS v1.0 for web-based access, TFTP/HTTP File transfers (uploads, downloads), HTTP Download (firmware), Syslog (RFC 3164)
10	<b>LEDs</b>	Per port: Speed, Link, Activity Per device: Power, Fan and PoE Power Status
11	<b>Environmental Conditions</b>	Operating Temperature: 32° to 122°F (0° to 50°C) Operating Humidity: 90% maximum relative humidity, non-condensing Storage Temperature: -20° to 70°C (-4° to 158°F) Storage Humidity: 95% maximum relative humidity, non-condensing
12	<b>Certifications</b>	CE mark, commercial, FCC Part 15 Class A, VCCI Class A, Class A EN 55022 (CISPR 22) Class A, Class A C-Tick, EN 50082-1, EN 55024, CSA certified (CSA 22.2 #950), UL listed (UL 1950)/cUL IEC 950/EN 60950
13	<b>Warranty and Support</b>	True Hardware replacement warranty- upto the EOL of the device. Lifetime free latest firmware support Replacement with New Product Only. No refurbished Products.

#### ITEM-4: Technical Specification of 1G SFP Module

S.No	Technical Specifications	
1	<b>SFP Module</b>	1000Base-LX Fiber SFP LC duplex connector 1310 nm, for distances up to 10 km Single Mode Fiber ROHS Compliant Compliant with SFP Transceiver MSA specification Compliant with Specifications for IEEE 802.3z/Gigabit Ethernet Compliant with Industry Standard RFT Electrical Connector and Cage Single + 3.3V Power Supply and TTL Logic Interface EEPROM with Serial ID Functionality Laser Class 1 Product which comply with the requirements of IEC 60825-1 and IEC 60825-2
2	<b>Warranty and Support</b>	5 Years Hardware Replacement Warranty Replacement with New Product Only No refurbished Products.

**ITEM-5: Technical Specification of Network Monitoring Software/Tool**

S.No	Technical Specifications
1	The NMS tool shall come with Topology Mapping, Topological Management Alerts, Event Monitoring, Monitor Data vide Device details, Port details, Support for alerts via email with SMTP configuration, Report like Device inventory, device availability, port status, interface status reports, firmware, Configuration Support vide MIB Browser SNMPv1, SNMPv2c, and SNMPv3, Shall have feature to detect any loop or any device creating issues in the network

**ITEM-6: Technical Specification of Firewall with 36 months' protection license**

Sr. No	Requirement	Specifications
1	Hardware Features	<ul style="list-style-type: none"> <li>• Storage (local quarantine/logs) - 1 x min. 240 GB SATA-III SSD</li> <li>• Ethernet interfaces (fixed) - 4 x GbE copper 4 x 2.5 GbE copper 4 x SFP+ 10 GbE fiber</li> <li>• Bypass port pairs - 2</li> <li>• Management ports - 1 x RJ45 MGMT 1 x COM RJ45 1 x Micro-USB (cable incl.)</li> <li>• Other I/O ports - 2 x USB 3.0 (front)</li> <li>• Number of Flexi Port slots - 2</li> <li>• Flexi Port modules (optional) - 8 port GbE copper 8 port GbE SFP fiber 4 port 10 GbE SFP+ fiber 4 port GbE copper bypass (2 pairs) 4 port GbE copper PoE + 4 port GbE copper 4 port 2.5 GbE copper PoE 2 port GbE Fiber (LC) bypass + 4 port GbE SFP Fiber</li> <li>• Max. total port density (incl. use of modules) - 28</li> <li>• Max. Power-over-Ethernet (using Flexi Port module) - 2 modules: 4 ports, 60W max. each.</li> <li>• Optional add-on connectivity - SFP DSL module (VDSL2) SFP/SFP+ Transceivers</li> <li>• Mounting - 1U rackmount (sliding rails incl.)</li> </ul>
2	Performance	<ul style="list-style-type: none"> <li>• Firewall throughput - 75,000 Mbps</li> <li>• Firewall IMIX - 33,000 Mbps</li> <li>• Firewall Latency (64-byte UDP) - 3 μs</li> <li>• IPS throughput - 29,500 Mbps</li> <li>• Threat Protection throughput - 6,500 Mbps</li> <li>• NGFW - 23,000 Mbps</li> <li>• Concurrent connections - 16,600,000</li> <li>• New connections/sec - 368,000</li> <li>• IPsec VPN throughput - 62,500 Mbps</li> <li>• IPsec VPN concurrent tunnels - 8,500</li> <li>• SSL VPN concurrent tunnels - 7,500</li> <li>• SSL/TLS Inspection - 8,000 Mbps</li> <li>• SSL/TLS Concurrent connections - 276,480</li> <li>• The device shall support NAT: shall support dynamic NAT as well as one-to-one NAT.</li> <li>• The device Licensing shall be par device license and not user/IP based license.</li> <li>• The device shall support Identity awareness by specific users, group of users and machines that the users are using.</li> </ul>

		<ul style="list-style-type: none"> <li>• Firewall shall have 1TB storage for logging, analysis, and reporting.</li> <li>• The device shall be able to log and report usernames, IP address, mac address, URL, website category and category type.</li> <li>• The proposed solution must allow policy rule creation for application control, user-based control, host profile, threat prevention, Anti-virus, file filtering, content filtering, QoS.</li> <li>• The device shall have integrated Application/Web/URL/MAC Filtering and MAC binding features.</li> <li>• The device shall be able to identify, allow, block or limit applications regardless of port, protocol etc.</li> <li>• The device shall be able to block different categories/sites based on usernames, groups, tags and keywords.</li> <li>• The device shall support multiple types of report format PDF, XLS etc.</li> </ul>
3	User Security feature	<ul style="list-style-type: none"> <li>• Firewall must have features of connecting the users based on username and password allotted to the concerned users and these credentials shall not be transferable to the other user or device.</li> </ul>
4	Authentication	<ul style="list-style-type: none"> <li>• Client Authentication via: Local Database for user authentication based on Username and Password.</li> <li>• Mac based binding of the user device.</li> <li>• Client authentication agents for Windows, Mac OS X, Linux 32/64</li> <li>• Authentication certificates for iOS and Android</li> <li>• Captive Portal</li> </ul>
5	Security Subscriptions, Warranty and Support	<ul style="list-style-type: none"> <li>• Certifications - CB, CE, UKCA, UL, FCC, ISED, VCCI, KC, RCM, NOM, Anatel, CCC, BSMI, TEC, SDPPI</li> <li>• Three Year All Features Bundled License</li> <li>• On-site service (9am – 5pm): Service during office hours and 24x7 Technical Support and access to online support service.</li> <li>• All updates and upgrades without any additional cost to university in the warranty/AMC period. Updates must be done locally on site.</li> <li>• Three-year (24x7) Comprehensive Support, Advanced Services Ticket Handling, Advanced Hardware Replacement in case of device failure, Firmware and General Upgrades, 360 Services Bundle.</li> <li>• Training to SVSU team to use the device.</li> <li>• Device shall have minimum three (3) years of warranty. Replacement of the device with new device during the warranty period.</li> </ul>

**ITEM-7: Technical Specification of USB Dongle for WI-FI (300 Mbps)**

S.No	Technical Specifications
	Compact size
	Plug & Play installation
	Fully 802.11 g/n compatible
	Powered by the USB port; no external power source required
	USB 2.0 or 3.0 standard

**ITEM-8: Technical Specification of Access Point with Cloud based Controller.**

S.No	Technical Specifications	
1	<b>Physical Interfaces</b>	One 2550 BASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink, (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE)
		Internal 2.9/2.8dBi (2.4GHz/5GHz)
		Led indication for Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status
		provision for power connector: 12V DC, 2.5A
		Access Point shall be ceiling mounted based and shall have inside antenna.
2	<b>Standards</b>	IEEE 802.11AX, IEEE 802.11ac, IEEE 802.11n
		5GHz: 2400Mbps 2.4GHz: 600Mbps
		WMM - Wireless Multimedia Prioritization
		WDS- Wireless Distribution System
		Power over Ethernet (PoE) IEEE 802.3af/802.3at
3	<b>Security</b>	Wi-Fi Protected Access (WPA3)
		Wired Equivalent Privacy (WEP) 64-bit, 128-bit, and 156-bit encryption
		Wireless access control to identify authorized wireless network devices
		MAC address filtering with access control
		Basic Service Set Coloring (BSS Coloring)
		Security Socket Layer (SSL) remote management login
4	<b>Network Management</b>	Remote configuration and management through Web browser, SNMP or Telnet
		SNMP management supports SNMP
5	<b>Manageability</b>	As standalone
		remote/Cloud manageable with License
5	<b>Advanced Wireless Features</b>	Wireless Distribution System (WDS)
		Wireless backhauls to form Mesh Network
		Bridge mode: Point-to-multipoint wireless WDS mode
		Adjustable Transmit Power Control (TPC) Device detection
		AirQual feature enables spectrum analysis and interference identification
6	<b>Other Specifications</b>	PoE power consumption shall not be more than 22W Watts
		Band steering
		AX3000 3.0Gbps
		Target Wake Time (TWT)
		Block SSID Broadcast
		Ceiling mounting/ Wall mounting
		OFDM and OFDMA shall be available
		Deployment Options: Standalone, Mobile App
7	<b>Warranty and Support</b>	5 Years of Hardware Warranty.



		Included 5 Years of Cloud License/Support
		No repair products & replacement with New box.
		Lifetime free latest firmware support

**ITEM-9: Technical Specification of 48 Core Single Mode Armored Distribution OFC Cable (4 Core X 12 Tube)**

Sr No.	Specification
1	Fiber cable shall be 48 core Single Mode with 4 cores in each tube
2	Fiber cable to be Double jacket HDPE with Dry Loose Tube (PBT) ECSS tape
3	Gel Free with minimum tensile strength of 2700 N and Crush Resistance of 3000N
4	There shall be two rip cords under inner jacket
5	The OFC must have bandwidth capacity of minimum 10 GB.

**ITEM-10: Technical Specification of 6 Core Single Mode Armored OFC Cable**

Sr No.	Specification
1	Type: Single Mode OS2
2	Cable shall have 6 cores in single tube.
3	Cable Shall have ECCS tape armoring with HDPE Jacket
4	Tensile Strength 800N and crush resistance 2000 N
5	The OFC must have bandwidth capacity of minimum 10 GB.

**ITEM-11: Technical Specification of Fiber Single Mode LIU- LC Type 12 Ports/48 Ports- with Pigtailed, Coupler, Spice Tray**

Sr No.	Specification
1	Have sufficient slots to accommodate 24 Duplex LC Ports Single Mode and to be loaded as per requirement with LC single mode pigtail and SM LC duplex adaptors
2	Shall have fiber management provision inside
3	Shall be rack mountable 1U
4	Shall have Splice holder for minimum 24 Fiber cores
5	Shall have Adapter body plus flange and integral quick-mounting clip and M2 thread, colour metallic, material X10CrNi18-8
6	Protection class (IP-20 rated)
7	Shall have integral self-closing metal laser protection flaps
8	Shall have option for Visual coding, mechanical coding, and lock protection.
9	Adaptor shall be UL listed
10	Adaptor shall have semi-transparent plastic dust covers, allowing optical testing with test lasers without removing the covers.
	<b>Pigtail Specification</b>
11	Connector type LC
12	Fiber Type SM OS2
13	Compact design (SFF). 1.25 mm ferrule technology
14	Length 1meter/1.5 meter

**ITEM-12: Technical Specification of Optical Fibre Patch Cord - LC type Single Mode**

Sr No.	Specification
1	Patch Cord Shall be LC – LC SM Duplex
2	Patch Cord Shall be Single Mode G.657A2

3	Type of Connector LC-LC
4	Cord shall have helical steel armoring.
5	Shall have option for Visual coding, mechanical coding, and lock protection.

**ITEM-13: Technical Specification of CAT6-A Cable Bundle, LSZH**

Sr No.	Specification
1	Cat 6- A U/UTP Cable
2	Shall be 4 pair with cross separator
3	Cable shall be of 23 AWG copper conductor
4	Jacket: LSZH
5	Cable shall be verified by ETL/3P for cat6-A performance.

**ITEM-14: Technical Specification of CAT6 Patch Panel (24 port)- un-Loaded**

Sr No.	Specification
1	Shall be 19" 1U straight Patch Panel, 24-port
2	Shall have integral cable management Metal shelf.
3	Shall accept Shielded as well as Unshielded jacks
4	Shall have rear cable management shelf metallic.
5	Jack panel shall have option to accept different color snap in coding clips
6	Jack panel shall have zig zag jack placement.
7	Panel shall be UL listed

**ITEM-15: Technical Specification of CAT6 RJ-45 Modular Plug for Wi-fi Access Point End IP**

Sr No.	Specification
1	Shielded High-Performance Category 6 RJ45 Plug for Demanding EMI/RFI Environments
2	Unique 360-Degree Strain Relief for Superior Shield Termination
3	Short Body Design with Load Bar simplifies Termination and Two-Point Contact works equally well with Solid or Stranded Conductors
4	EIA568 Compliant to Category 6 Performance for High-Speed Networks

**ITEM-16: Technical Specification of Wall Mount Rack (12U)**

Sr No.	Specification
1	Rack shall be UL Listed.
2	Rack shall be 12U/550X600
3	Rack shall have static Load capacity for 30KG
4	Horizontal PDU 6 Sockets 1 Nos
5	PVC Cable manager -1U Qty 1Nos.
6	Hardware (Pkts of 20) Qty 2 Nos. FAN 1 Nos.

**ITEM-17: Technical Specification of Floor Standing Network Rack (42U)**

Sr No.	Specification
1	Rack shall be UL Listed
2	Rack shall be 42U/800X800MM with PDU 12 Sockets X2 Nos.

3	Rack shall have provision for Cable Basket for Cable Management.
4	Hardware (Pkts of 20) 6Nos.
5	PVC Cable managers 1U X 6 Nos. with all required accessories

**ITEM-18: Technical Specification of HDPE pipe (75 mm) with nylon rope inside and with coupler**

Sr No.	Specification
1	HDPE pipe (75 mm) with nylon rope inside - PLB duct pipe , AS PER TEC certification , Single Any Color
2	HDPE Pipe 75 mm Push Fit duct Coupler

**ITEM-23: Technical Specification of Chamber/Manhole**

Sr. No.	Specification
1	Creation of Chambers outside building Size
2	600X600X800MM Depth with Brick and Cemented

**ITEM-24: Technical Specification of Face Plate**

Sr No.	Specification
1	Square plate, 86mmx86mm
2	Write on labels in transparent plastic window – supplied with plate
3	Material: ABS Plastic
4	Face plate shall have option to attach Hinged dust cover in different colors
5	Face Plate dust cover shall be replaceable without removing patch cord

**ITEM-25: Technical Specification of Information outlet (I/O) Face Plate**

Sr No.	Specification
1	Category 6, TIA/EIA 568.2-D
2	information outlets Shall accept cables from 22-24 AWG copper
3	Shall be PCB free and Tool less
4	Material shall be halogen-free and heavy-metal free in acc. with EU directives RoHS 2.
5	Shall support 950 mating cycles
6	Jack shall be optimized for 4PpoE (IEEE 802.3bt) and has been tested by 3P /ETL verified with the requirements of ISO/IEC 60512-99-002:2022 (Power over Ethernet – Type 4)
7	Shall support 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m
8	Panel side Jack shall have options for color coding clips in five different colors
9	Shall be Certified/verified by independent labs like ETL/3P in three connector permanent link

**ITEM-26: Technical Specification of CAT6 Patch Cord LSZH**

Sr No.	Specification
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1	Shall be Compliant with Cat.6 requirements of ISO/IEC 11801, EN 50173, EN 50168 and TIA/EIA 568.2-D
2	The Outer Jacket shall be LSZH
3	Patch cord shall be optimized for 4PpoE (IEEE 802.3bt)
4	Shall be unshielded
5	Patch cord shall be terminated using insulation displacement connections
6	Shall have Option for different coding clips shall be available
7	Same Patch cords shall be able to accept locking arrangement in future
8	Patch Cord Shall be verified by ETL/3P.

### **5.7 Other condition of the Scope of work**

- a) The complete tender shall be under two-year of DLP (defect liability period) period to the bidder.
- b) All the hardware and devices must have 5 years of warranty and any software or licenses attached with devices must be valid for minimum five (5) years.
- c) End of Life for all the devices must be of 5 years from the date of installation.
- d) Bidder or OEM support strategy shall have a helpdesk Support (with preferably trouble ticketing/toll free number): 24x7x365. Support from bidder (and OEM if applicable) shall be on site whenever a faulty part is to be replaced, the replacement shall be a new device same as of faulty device or higher from the faulty device.
- e) During the defect liability period bidder has to check the issue by deputing engineer on the same day of issue reported. Bidder shall depute engineers for attending to the complaints related to the hardware and software/firmware components.
- f) The network deployment shall ensure low power consumption for environmentally friendly deployment.
- g) The bidder has to submit the security compliance certificate at the end of the work execution.
- h) The bidder needs to quote for all items. Partial quotes shall not be considered as eligible bid.
- i) For queries regarding scope and survey of the required work the bidder may contact to ITCELL of the university. ([itcell@svsu.ac.in](mailto:itcell@svsu.ac.in))
- j) Any additional accessories required for installation, testing and commissioning of any device or requirement, it has to be provided by the bidder in the bid. The bidder shall take care of all necessary accessories for the complete commissioning of the work before making the bid.

<< Organization Letter Head >>  
**BID SUBMISSION**

**Online Bid Submission:**

Online system shall be followed, i.e.

- (i) Please note that in any case if price-bid/Financial Offer submitted manually then bid shall not be accepted.
- (ii) Only those proposals shall be considered for opening, who have submitted their BID online by due date/time (as specified in Bid Data Sheet).

The Online bid completes in all respect.

The following checklist is for the convenience of the bidders. Kindly check the following points before submitting the bids. **Must mentioned the page number for each attached document.**

Sr. No.	Content	Document Submitted (Yes/No)	Page Number as per numbering given to the technical bid documents uploaded on the portal (If Applicable)
1.	Whether all pages of the proposal have been signed with seal of firm by bidder/authorized signatory? Have submitted the Scanned copy (PDF format) of the technical proposals on e-Procurement Portal?		
2.	Have submitted the Company Registration & associated Documents on e-Procurement Portal?		
3.	Have submitted copy of PAN, GST, TAN Registration etc. on e-Procurement Portal?		
4.	Have submitted EMD and TENDER+ E-Service charges on e-Procurement Portal?		
5.	Have submitted the authority letter for signing the proposal on behalf bidder and for use of digital signature on e-Procurement Portal?		
6.	Have submitted the Details of Bid Submission as per Annexure – I		
7.	Have submitted the Organization Declaration Sheet as per Annexure – II		
8.	Have submitted the document proof for in existence for more than 5 years as on 31.03.2023.		
9.	Declaration regarding the bidder shall also have their registered office in Delhi/NCR India. The company must be registered with appropriate authorities for all applicable statutory duties/taxes		
10.	Have submitted the Annual Turnover documents		
11.	Have Submitted the details of last three OFC laying project in last five years – Annexure - III		
12.	Have submitted the net worth certificate		

Sr. No.	Content	Document Submitted (Yes/No)	Page Number as per numbering given to the technical bid documents uploaded on the portal (If Applicable)
13.	Have submitted the valid copy of ISO 9001 and 27001 certificates		
14.	Have Submitted the declaration of technical manpower (10 employees)		
15.	Have submitted the OEM Certificate (as per clause 3 (vi))		
16.	Have submitted the Affidavit regarding delisting/blacklisting, demobilization etc. as per Annexure – X		
17.	Have submitted declaration regarding consortium bid or not		
18.	Have submitted site visit certificate (clause 3 (ix))		
19.	Have submitted the list of devices/components to be supplied/installed along with the model number		
20.	Have submitted the technical compliance sheet along with the specification of the device and model number.		
21.	Have submitted the initial planning to execute the required work in the tender		
22.	Have submitted the details of net worth positive for last three (3) financial year.		
23.	Have submitted the solvency certificate of 80% of tender value.		
24.	Have submitted the Details of Electronic Fund Transfer/RTGS Transfer (Annexure VI)		
25.	Have submitted the Training Requirement (Annexure – VII)		
26.	Have submitted the Affidavit regarding Authenticity and correctness of information/documents as per Annexure - IX		
27.	Have submitted the any other technical supporting documents in support of all claims.		
28.	All documents to be submitted by the firms shall be duly attested by Authorized person/gazetted officer/ notary public in case these are copies of the original documents. No unattested documents shall be entertained.		
29.	Have submitted the financial bid as per BOQ.		-----

**(Signature with Seal of the Bidder)**

**Name:** .....  
**Designation:** .....  
**Organization Name:** .....  
**Contact No.:** .....

**<<Organization Letter Head >>**  
**DECLARATION SHEET**

We, \_\_\_\_\_ hereby declare that all the information and statements made in this Proposal are true and accept that any misleading information contained in it may lead to our disqualification. I have gone through the specifications, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

We, further specifically certify that our organization has not been Blacklisted/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

Name & Address of the Bidder/ Manufacturer /authorized dealer/distributors/agent	
Phone	
Fax	
E-mail	
Contact Person Name	
Mobile Number	
GST Number	
TIN Number	
PAN Number	
(On-line payment of Tender Fees)	
UTR No. (For Tender Fee)	
(On-line payment of EMD)	
UTR No. (For EMD)	

**Attachments:**

1. Power of Attorney in the name of authorized representative to be enclosed.
2. Affidavit(s).

**(Signature with Seal of the Bidder)**

**Name:** .....

**Designation:** .....

**Organization Name:** .....

**Contact No.:** .....





<< Organization Letter Head >>  
LIST of application specialist / supporting / Service Engineer

Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.		
Name and Address of the organization	Name of Contact Person	Contact No.

S. No	Nearest Address of service branch	Nearest Address of spares branch

**Signature of Bidder**

**Name:** .....

**Designation:** .....

**Organization Name:** .....

**Contact No.:** .....

**FORMAT FOR PERFORMANCE BANK GUARANTEE**

**(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred)**  
(TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT GURUGRAM OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GURUGRAM OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT GURUGRAM. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To,  
The Registrar  
Shri Vishwakarma Skill University,  
Gurugram, Haryana  
India

***LETTER OF GUARANTEE***

WHEREAS Shri Vishwakarma Skill University, Gurugram (Buyer) have invited Tenders vide TenderNo.: ..... dated:

.....  
For purchase ..... of

.....  
and whereas the said tender document requires that any eligible successful Bidder (seller) wishing to supply the equipment / machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Shri Vishwakarma Skill University**” in the form of Bank Guarantee for Rupees ..... and this Guarantee shall expire no later than 60 days beyond the date of completion of contract period.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said Bidder (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this bank shall pay to Shri Vishwakarma Skill University, Gurugram on demand and without protest or demur Rupees .....

This bank further agrees that the decision of SVSU, Gurugram (Buyer) as to whether the said Bidder (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, ..... (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Bidder (Seller) and/ or Shri Vishwakarma Skill University, Gurugram (Buyer).

**Notwithstanding anything contained herein:**

1. Our liability under this Bank Guarantee shall not exceed Rupees. .... (Indian Rupees only).
2. This Bank Guarantee shall be valid up to ..... (date).
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if Institute serve upon us a written claim or demand on or before .....(date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at ..... (Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

**Instruction to Bank:** Bank shall note that on expiry of Guarantee Period, the Original Guarantee shall not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

**<< Organization Letter Head >>  
MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER**

Date:        /        /

The Registrar  
Shri Vishwakarma Skill University,  
Gurugram.

Sub: Authorization for release of payment / dues from Shri Vishwakarma Skill University, through Electronic Fund Transfer/RTGS Transfer.

1. Name of the Party/Firm/Company/Institute:
2. Address of the Party:

Line 1:

.....

Line 2:

.....

City:

.....

Pin Code:

.....

E-Mail ID:

.....

Mob No:

.....

Permanent Account Number (PAN NO.):

.....

**3. Particulars of Bank**

Bank Name		Branch Name	
Branch Place		Branch City	
Pin Code		Branch Code	
MICR No.			

(9 Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name and code number)														
IFS Code:(11-digit alphanumeric code)														
Account Type	Saving <input type="checkbox"/>				Current <input type="checkbox"/>				Cash Credit <input type="checkbox"/>					
Account Number														

**DECLARATION**

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Registrar, Shri Vishwakarma Skill University, responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: .....  
 Date: .....

Signature & Seal of the Authorized Signatory of the Party

---

Certified that particulars furnished above are correct as per our records

Bankers Stamp:  
 .....

Date:

**Signature of the Authorized Official from the Bank**

N.B: Please fill in the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable.

<< **Organization Letter Head** >>  
**Training Requirement**

1.	Product Description	.....( <b>Tender Name</b> )
2.	No. of Attendees	University staff and students
3.	No. of Days	1 Week or as per the requirement
4.	Type of Training	Operational Training and Maintenance Training (Mechanical, Electrical and Electronics)

Proper Training of 1 weeks (full day) or as per the requirement has to be given by the qualified engineer of the firm to the university staff and students without any additional cost.

**Signature of Bidder**

**Name:** .....

**Designation:** .....

**Organization Name:** .....

**Contact No.:** .....

<< Organization Letter Head >>  
Financial Proposal (to be submitted online only)

**Financial Proposal**

To  
The Registrar,  
Shri Vishwakarma Skill University, Haryana,  
Transit office: Plot No. 147, Sector 44,  
Gurugram (Haryana).

**Sub: Financial Bid /proposal for**  
“ \_\_\_\_\_ ”

Dear Sir,

We are pleased to quote/submit our financial proposal for the  
“ \_\_\_\_\_ ”.

I/We \_\_\_\_\_ organization here with  
enclose the Financial Proposal for selection of my/our firm for that tender. For TENDER,  
**our Financial Proposal submitted in BOQ on online procurement portal.**

Our financial proposal shall be binding upon us subject to the modifications resulting from  
contract negotiations, up to expiration of the validity period of the Proposal, i.e. 180 days  
from the last date notified for submission of the proposal.

1. Delivery Mode: - Delivery at University, at site or at that place to be informed by the SVSU.
2. Delivery Period: Within maximum of 06 weeks from the date of placement of purchase order.
3. Terms of payment: For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at SVSU, Palwal Campus in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in tender terms and conditions.

**NOTE: Financial Proposal must be submitted online in BOQ format only. If financial bid submitted manually than bid shall not be accepted in any circumstances.**

Signature: .....

Name: .....

Business Address: .....

.....

Affix Rubber Stamp: .....

Place: .....

Date: .....

**Affidavit regarding Authenticity and correctness of information/documents**

**||SPECIMEN**

**AFFIDAVIT||**

(On Non Judicial Stamp of Rs. 100/-)

To  
The Registrar,  
Shri Vishwakarma Skill University, Haryana,  
Transit office: Plot No. 147, Sector 44,  
Gurugram (Haryana).

In response to the Tender No. .... for  
..... (Name of the Tender) dated  
..... for quoting against the Tender as an owner/Director/Proprietor of  
M/s .....

I/we ..... who is/are ..... (status in  
the firm/company) and competent for submissions of the affidavit on behalf of M/S  
..... (Organization/Manufacturer/authorized  
dealer/distributors/agent) do hereby solemnly affirm an oath and state that:

I/we am/are fully satisfied for the correctness of the certificates/records submitted in support  
of the following information in bid documents which are being submitted in response to  
notice inviting e-tender No. ....

We also agreed to buyer for Integrity Pact terms and conditions as applicable from time to  
time as per government rules.

I/we am/are fully responsible for the correctness of following self-certified Information/  
documents and certificates:

1. That the self-certified information given in the bid document is fully true and authentic.
2. That:
  1. The proof of online deposit of EMD and cost of TENDER/bid document + E-service charges and other relevant documents provided are authentic.
  2. Information regarding financial qualification and annual turnover is correct.
  3. Information regarding various technical qualifications is correct.

**Signature with Seal of the Deponent (Bidder)**

I/we, \_\_\_\_\_ above deponent do hereby certify that the  
facts mentioned in above are correct to the best of my knowledge and belief. Verified  
today \_\_\_\_\_ (dated) at \_\_\_\_\_ (place).

**Signature with Seal of the Deponent (Bidder)**

*Note: Affidavit duly notarized in original shall submit in the Office of Shri Vishwakarma Skill University, Haryana, Transit office: Plot No. 147, Sector 44, Gurugram (Haryana) on Technical Presentation day/date.*



**Affidavit regarding delisting/blacklisting, demobilization etc.  
||SPECIMEN**

**AFFIDAVIT||**

(On Non Judicial Stamp of Rs. 100/-)

To  
The Registrar,  
Shri Vishwakarma Skill University, Haryana,  
Transit office: Plot No. 147, Sector 44,  
Gurugram (Haryana).

In response to the Tender No. .... for  
..... (Name of the Tender) dated  
..... for quoting against the Tender as an owner/Director/Proprietor of  
M/s .....

I/we \_\_\_\_\_ who is/are \_\_\_\_\_ (status in  
the firm/company) and competent for submissions of the affidavit on behalf of  
M/S \_\_\_\_\_ (Organization/Manufacturer/authorized  
dealer/distributors/agent) do hereby solemnly affirm an oath and state that:

The firm/agency shall not be black-listed/de-listed/debarred/ demobilized for poor or  
unsatisfactory performance from any project by Govt. of India/Any other State  
Govt./Haryana Govt. or its Departments/agencies etc.

**Signature with Seal of the Deponent (Bidder)**

I/we, \_\_\_\_\_ above deponent do hereby certify that the  
facts mentioned in above are correct to the best of my knowledge and belief. Verified  
today \_\_\_\_\_ (dated) at \_\_\_\_\_ (place).

**Signature with Seal of the Deponent (Bidder)**

***Note: Affidavit duly notarized in original shall submit in the Office of Shri Vishwakarma  
Skill University, Haryana, Transit office: Plot No. 147, Sector 44, Gurugram (Haryana) on  
Technical Presentation day/date.***

**Affidavit regarding completion of supply and installation & commissioning of scope of the work etc. in running condition within stipulated time frame.**

**||SPECIMEN**

**AFFIDAVIT||**

(On Non Judicial Stamp of Rs. 100/-)

To  
The Registrar,  
Shri Vishwakarma Skill University, Haryana,  
Transit office: Plot No. 147, Sector 44,  
Gurugram (Haryana).

In response to the Tender No. .... for  
..... (Name of the Tender) dated  
..... for quoting against the Tender as an owner/Director/Proprietor of  
M/s .....

I/we \_\_\_\_\_ who is/are \_\_\_\_\_ (status in  
the firm/company) and competent for submissions of the affidavit on behalf of  
M/S \_\_\_\_\_ (Organization/Manufacturer/authorized  
dealer/distributors/agent) do hereby solemnly affirm an oath and state that:

We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

We hereby declare that our firm shall supply the Machine/Lab Equipments etc. as per Technical Specification and installation & commissioning of the Machine/Lab Equipments in respective lab(s) in working condition within the time frame as enumerated in the tender document.

we/I further declare that if any delay is found in delivery/installation and the offer is not accepted partially or fully by our firm(s) the performance security or EMD furnished as per the tender document is liable to be forfeited and no objection of being blacklisted in these circumstances.

**Signature with Seal of the Deponent (Bidder)**

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief. Verified today \_\_\_\_\_ (dated) at \_\_\_\_\_ (place).

**Signature with Seal of the Deponent (Bidder)**

***Note: Affidavit duly notarized in original shall submit in the Office of Shri Vishwakarma Skill University, Haryana, Transit office: Plot No. 147, Sector 44, Gurugram (Haryana) on Technical Presentation Day/date.***

**ANNEXURE – XII**

**(AN AGREEMENT BETWEEN SHRI VISHWAKARMA SKILL UNIVERSITY  
AND THE SUPPLIER) \***

Shri Vishwakarma Skill University (SVSU), Enacted under Government of Haryana Act No.25 of 2016 having its transit office at Plot No-147, Sector-44, Gurugram, Haryana represented through its authorized signatory ..... (**Name of Registrar**), Registrar (which expression shall unless repugnant to the context or meaning there off includes its successors and assigns) here in after referred to as **SVSU** or Owner or the **First Party**.

And

Firm Name..... having its office at ....., through its authorized signatory ..... (**Name &Post**), (which expression shall unless repugnant to the context or meaning there off includes its successors and assigns) here in after referred to as execution Manufacturers/Authorized Dealers/Distributors/Agent or the **Second Party**.

Whereas SVSU has invited Tender No. .... for ..... (Name of the Tender) dated ..... and M/s ..... (Firm Name) submitted its proposal in this regard. SVSU after considering its negotiation offer has decided to engage ..... (Firm Name) as executing agency for Tender No. .... for ..... (Name of the Tender) dated .....

Firm Name..... (execution **Agency**) is hereby agreed to take the Tender No. .... for ..... (Name of the Tender) at the quoted negotiation rates, terms and conditions contained the TENDER, Work Order/Purchase Order and duly communications of the above said work.

Now, therefore, in consideration of the mutual covenants herein contained, it is hereby agreed between the parties as follows: -

The agreement shall come into force immediately and shall remain valid until the final completion of the job or cancelled by the Bidder (The Registrar, Shri Vishwakarma Skill University, Haryana) as per the time schedule described in the tender document.

All the terms and conditions and Technical specifications contained in the Tender No. .... for ..... (Name of the Tender) dated ..... shall be the part of this agreement.

Firm Name..... (execution **Agency**) hereby declare that I shall remain bound and abide by the rates, terms and conditions and technical specifications of the aforesaid as well as TENDER, Work Order/Purchase Order and due communications of the above said work.

In Witness Whereof, the parties here to have caused this agreement to be signed in their respective names as of this day and year first above written.

**Signed by**

**Buyer: SVSU, Palwal**  
**Signature with seal**  
**Date & Place**

**Bidder:**  
**Signature with seal**  
**Date & Place**

**In presence of (Witnesses)**

**1.**

**1.**

**2.**

**2.**

**\*Note-This Contract is to be Signed on Rs. 100/- Non Judicial Stamp paper within 15 days after receiving purchase Order/Work Order from buyer.**

(Please put the initials at each page)