

H.P. STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.
(A Unit of H.P. Government Undertaking)



e-TENDER
FOR
Setting up of Wi-Fi network in University campus at Nauni
(Solan)

E-Tender No: SEDC/Nauni/NETWORK/2K22-154

H.P. STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.,
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Website: www.hpsedc.in, tender document can also be downloaded from <https://hptenders.gov.in>

07-04-2022

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SECTION-1

INVITATION FOR E-BIDS

E-TENDER NO: SEDC/Nauni/NETWORK/2K22-154

Note: The Press e-Tender Notice published on 07/04/2022 in following daily Newspapers for inviting e-Tenders for Setting up of Wi-Fi network in Nauni University campus during warranty period and post warranty period at Nauni (Solan). In case there is any decrease/ increase in prices, HPSEDC may asked the bidders to submit revised quotes in sealed envelopes. The rates finalised in this tender will also be considered for General Rate Contract of equipment and will be valid for three years. The tender notice will be published in the following new papers.

1. Amar Ujala (Chandigarh/ Delhi Edition)
2. Indian Express (Chandigarh/ Delhi Edition)

The detailed e-Tender document contained in following sections has been prepared to elaborate all techno-commercial conditions of this tender. In case of any discrepancy between the Press Advertisement and detailed provisions of this Tender Document, the latter will prevail. For any further changes (if any, based on feedback/ queries from any quarter and pre-bid meeting) in this tender document, please see its updated version/corrigendum on www.hpsedc.in and <https://hptenders.gov.in>.

A) e-Tenders are invited by the undersigned from eligible bidders, i.e. Original Equipment Manufacturers (O.E.M.)/ Principal National Distributors/ Country Channel Partners in India (in case of imported equipment)/ Large Scale Systems Integrator duly authorised by the manufacturer for the Wi-Fi solution as per technical specifications in Annexure-I to at Nauni (Solan) and providing after sale support during warranty period.

GIST OF IMPORTANT GENERAL CONDITIONS

- 1) The tender has been floated for finalizing the rate for setting up of Wi-Fi network in University campus at Nauni (Solan) as per specifications mentioned in Annexure-“I”. The rate will be finalised for all the components involved in structured Wifi setup, where the bidder has quoted lowest (L1) rate, for all the item as a whole i.e. L1 bidder shall be determined based on the lowest total amount for all the items combined. **Only L1 rates** will be conveyed to the Dr. Y S Parmar University, Solan and accordingly purchase orders would be placed for only L1 bidder’s rates as per the gross bid value. However, since the equipment is to be procured and supplied to Dr. Y S Parmar University, Solan, so reasonability of the rates would be ascertained by the tender committee w.r.t. other tenders/ rate contracts in the market. Bidders have to ensure that the **rates quoted for this tender/ rate contract are better** (or at least equal) than the rates in other rate contracts/ government supplies or open market anywhere else in the country.
- 2)The rates, as discovered through this RFP, shall also be considered for Rate Contract, valid for three years. The terms and conditions of the Rate Contract shall be same as per this tender document.
- 3)All categories of Switches, routers, wireless and NMS should be from same OEM & Switch / Switch OS should be IPv6 logo, RoHS and common criteria / NDPP / NDcPP certified at the time of bidding.
- 4)After finalizing the L1 rates, the work order will be placed to L1 bidder for the quantity mentioned in this RFP and other bidder(s) may be given opportunity to match the prices of L1 bidder, if tender committee deems fit to ensure healthy competition and timely supply of hardware. Therefore, bidders are advised to quote their best rates.
- 5) Unless otherwise specified for a part of the order, the supplies should be completed within **6-8 weeks** from the date of placing the supply order except for snowbound/ tribal areas, where delivery can be made within 8-10 weeks. Delivery is to be made FOR destination i.e. Dr. Y S Parmar University, Solan and Installation has to be completed within **1 week** after supply of material. In Remote and snowbound areas delivery may be done at nearest district head quarter, in case the area is cut-off for the time being. The Managing Director, HPSEDC reserves the right to extend the delivery period based on the request of the supplier, wherever required.
- 6) The committee reserves the right to negotiate the rates with L1 bidder to bring them to a reasonable level based on the best prices offered by other bidders and current market rates.

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- 7) If the bidder quotes/ reduces, its price to render similar goods, works or services at a price lower than any tender/ rate contract price to anyone in the Country at any time during the currency of this tender, the price shall be automatically reduced with effect from the date of reducing or quoting lower price, for all delivery of the subject matter of procurement under this tender shall be amended, accordingly. The tender holder shall furnish the certificate to the HPSEDC that the provisions of this clause have been complied with in respect of supplies made or billed for upto the date of this certificate. On the conclusion of the tender the successful bidder shall furnish a certificate that the provision of this clause have been complied with during the period of tender/ rate contract.
- 8) Any prospective bidder can procure the Tender Document from the “H.P. STATE ELECTRONICS DEVELOPMENT CORPORATION LTD., FIRST FLOOR, I.T. BHAWAN, MEHLI, SHIMLA-171013, (H.P)”. Tender can also be downloaded from website <http://www.hpsedc.in> and <https://hptender.gov.in>.

The tender document will be available on all working days upto last date of bids submission on payment of Rs.5000/- (Rupees Five Thousand only) non-refundable, by demand draft/ RTGS in favour of “HP State Electronics Development Corporation Ltd., Shimla” payable at Shimla. If the tender document is downloaded from the website, the tender fee will have to be deposited along with the bid as a separate bank draft. E-tenders will be uploaded on HP Government e-Procurement portal <https://hptenders.gov.in> as well on HPSEDC website www.hpsedc.in. Interested bidder can participate by procuring tender.

3.) SCHEDULE OF THE TENDER PROCESS:

S. No.	Information	Details
1.	RFP No. and Date	No: SEDC/Nauni/NETWORK/2K22-154 Date: 07/04/2022
2.	Price of Tender Document	Rs 5000/-
3.	Earnest Money Deposit	Rs 4,00,000/-
4.	Bid validity period	120 days from the last date (deadline) for submission of e-Tenders.
5.	Pre-Bid Meeting	Pre-Bid meeting will also be held on 19/04/2022 at 11:30AM through video conference. Video Conferencing link is as under: https://meet.google.com/ffg-ndqi-igq

6.	Bid submission start date	23/04/2022 (11:00 AM)
7.	Bid submission End date	29/04/2022 (02:30 PM)
8.	Opening of e-Tenders Bids	30/04/2022 (03:00 AM)
9.	Tender Download Site	www.hpsedc.in & https://hptenders.gov.in
10.	Venue	H.P. State Electronics Development Corporation Ltd., 1 st Floor, I.T. Bhawan, Mehli, Shimla-171013, H.P.

- (i) Eligibility-cum-Technical Bids shall be opened initially, and eligibility documents will be evaluated.
- (ii) Thereafter Technical Bids of Eligible Bidders shall be evaluated.
- (iii) Commercial Bids of Eligible and Technically qualified bidders will be opened thereafter.

Any corrigendum, modifications, changes related to this tender before the day of bid submission shall be notified on website www.hpsedc.in or <https://hptenders.gov.in> only.

- 4) Notwithstanding anything else contained to the contrary in this Tender Document, the Managing Director, H.P. State Electronics Development Corporation Ltd., Shimla reserves the right to cancel/withdraw/ modify fully or partially the “Invitation for Bids” or to reject one or more of the bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.

5) INSTRUCTIONS TO BIDDERS FOR ELECTRONIC TENDERING SYSTEM

5.1 Registration of bidders on e-Procurement Portal: -

All the bidders intending to participate in the tender processed online are required to get registered on the centralized e - Procurement Portal i.e. <https://www.hptenders.gov.in>. Please visit this website for more details. In case of any problem in registration, please contact on toll free No. 1800-3070-2232.

5.2 Obtaining a Digital Certificate:

- 5.2.1 The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.
- 5.2.2 The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate from:
- 5.2.3 Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt and sign the data during of bid preparation stage. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or

any other problem) he will not be able to submit the bid online. Hence, the users are advised to keep a backup of the certificate and also keep the copies at safe place under proper security (for its use in case of emergencies).

5.2.4 In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no objection certificate/power of attorney /lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000.

Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the company/firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.

5.2.5 In case of any change in the authorization, it shall be the responsibility of management/ partners of the company/firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.

5.2.6 The same procedure holds true for the authorized users in a private/public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

5.2.7 Pre-requisites for online bidding:

In order to bid online on the portal <https://www.hptenders.gov.in>, the user machine must be updated with the latest Java & DC setup. The link for downloading latest java applet & DC setup are available on the Home page of the e-tendering Portal.

5.3 Online Viewing of Detailed Notice Inviting Tenders (N.I.T.) :

The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal e-Procurement system on the Home Page at <https://www.hptenders.gov.in>

5.4 Download of Tender Documents:

The tender documents can be downloaded free of cost from the e-Procurement portal <https://www.hptenders.gov.in> and www.hpsedc.gov.in.

5.5 Key Dates:

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

5.6 Bid Preparation (Qualification & Financial)

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- 5.6.1 Payment of Tender Document Fee & EMD of online Bids: The payment for Tender document fee and EMD can be made as mentioned in Section 3, at Sr. No. 1 and 2 of the Table.
- 5.6.2 The bidders shall upload their eligibility and technical offer containing documents, qualifying criteria, technical specifications, schedule of deliveries, and all other terms and conditions except the rates (price bid).
- 5.6.3 The bidders shall quote the prices in price bid format only.
- 5.6.4 If bidder fails to complete the Online Bid Preparation at Submission stage on the stipulated date and time, his/hers bid will be considered as bid not submitted and hence not appear during tender opening stage.
- 5.6.5 Bidders participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <https://www.hptenders.gov.in>.
- 5.6.6 For help manual please refer to the 'Home Page' of the e-Procurement website at <https://www.hptenders.gov.in>., and click on the available link 'How to ...?' to download the file.
- 5.6.7 Post registration, bidder shall proceed for bidding by using both his digital certificates (one each for encryption and signing). Bidder shall proceed to select the tender he is interested in.

NB: Any changes/corrigendum/revised tender related to this Tender Document will be published on our website www.hpsedc.in and <https://hptenders.gov.in>. Therefore prospective bidders are requested to see the updates on these websites regularly.

SECTION 2

INSTRUCTIONS TO BIDDERS

A- INTRODUCTION

2.1. Eligible Bidders

Sr. No.	Pre- Qualification Criteria	Required details to be accompanying the Bid document
1.	The bidder should be registered under the Indian Companies Act, 1956/ 2013 or Proprietors firm/ Partnership Firms (LLP) registered under LLP Act 2008 or subsequent amendments. There to having valid Government licence and GSTN and PAN.	Memorandum of Association (MoA), Articles of Association (AoA) of bidder and detailed profile of the Company/ Firm/ Government License and COI, GSTN, PAN for proprietors/ bidder
2.	(i) Tender Document Fee in favour of Managing Director, H.P. State Electronics Development Corporation, I.T. Bhawan, Mehli, Shimla-13. (ii) Earnest Money Deposit (EMD) in the shape of Demand Draft/ RTGS valid for 180 days in favour of Managing Director, H.P. State Electronics Development Corporation, I.T. Bhawan, Mehli, Shimla-13.	(i) Demand Draft (DD)/ RTGS of Rs. 5000/- (Rupees Five Thousand only) (ii) Earnest Money (Rs. 4,00,000) Deposit (EMD) as mentioned in clause 2.10 DD / EMD may be submitted through RTGS in HPSEDC A/c : (State bank of India Khalini, Shimla-2 Account no. 55069383586 IFSC Code-SBIN 0051132) Receipt/Copy of the demand draft/RTGS should be uploaded.
3.	The Bidder should have a valid GST Number, PAN Number	Relevant Registration Certificates (copies to be enclosed)
4.	A Bidder should be Original Equipment Manufacturer (OEM) or Authorised Principal National Distributor/ Regional Distributor/ Authorized Reseller/ Importer/ large Scale system integrator duly authorised by the OEM (Original Equipment Manufacturer) of the required equipments respectively. It will, however be, preferred that the Original Equipment Manufacturers (O.E.M.) quotes directly.	Authorization letter from OEM in format given at Performa-A, in case OEM not bidding directly. (One OEM can authorise only one bidder)
5.	The annual turnover (in terms of sales of hardware in India) of the OEM (with respect to active components)	CA certificate for turnover as mentioned in the criteria.

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	whose equipments are sought to be supplied, should be at least Rs. 50 Crores per annum for the last 3 years from the sale of similar items as mentioned in the RFP, i.e., for year 2017-18, 2018-19 and 2019-20.	Audited Balance sheets from company Statutory Auditor/ CA from OEM & financial data of the last three years in the format given in Proforma 'B'
6.	The Bidder should have an average annual turnover of at least Rs. 5 Crores during last three financial years from similar activities, i.e., should have supplied Wifi and related IT services, from India Operations i.e. for year 2017-18, 2018-19 and 2019-20.	CA certificate for turnover as mentioned in the criteria. Audited Balance sheets from company Statutory Auditor/ CA from OEM & financial data of the last three years in the format given in Proforma 'B'
7.	The Bidder or its OEM {themselves or through re-seller(s)} should have at least 3 years of experience in supply and maintenance of wifi networking in Government/Semi Govt./ PSUs/ Autonomous bodies of Central/ State Govt./Private Institution /Enterprises	Certificates from client regarding satisfactory supply and maintenance along with purchase orders. In case of non-disclosure agreement, confirmation regarding size and value of the project may be submitted from the client.
8.	The Bidder or its OEM {themselves or through re-seller(s)} should have experience in end-to-end implementation of at least 1 project of structured wifi networking of minimum INR 1 Cr or 2 projects of minimum INR 50 Lakh each or 3 projects of minimum INR 40 L each within last 3 (three) years (as on bid publish date) in India.	Certificates from client regarding satisfactory supply and maintenance along with purchase orders. In case of non-disclosure agreement, confirmation regarding size and value of the project may be submitted from the client.
9.	The bidder should either have positive Net worth in last three years or should be a profit making Company/ firm in any two years during the immediately preceding last 3 financial years as per audited balance sheets.	CA certificate for turnover as mentioned in the criteria. Audited Balance sheets from company Statutory Auditor/ CA from OEM & financial data of the last three years in the format given in Proforma 'B'
10.	The OEM/ bidder should have ISO/IEC 27033-6:2016 and ISO 9001:2015 or any other equivalent or better quality certification	Certificate of each type from the certifying organizations.
11.	OEM should have presence in INDIA for more than 10 years	Supporting documents such as Company registration certificate etc.

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12.	OEM Toll Free Technical Assistance Centre should be available 24X7, without any holidays. The bidder and OEM should have its own website having product related information (for OEM) and support related information (for both bidder and OEM).	Contact information and availability hour's details. Provide detail of web linkages.
13.	The Bidder should not have been declared ineligible at the time of bid submission and at the time of placing of supply order due to corrupt and fraudulent practices with any of the departments of the Central, State Governments Deptt. and PSUs of Central/ State Govt.	Certificate from the authorized signatory prescribed in Form-C.
14.	The bidder should have submitted the declaration of acceptance of terms and conditions of this RFP as per Form B	Declaration from Authorized Signatory as per Form B of this RFP
15.	The Bidder should already have reasonable support base in this region. The Purchaser's discretion regarding reasonableness of support base shall be final. It is clarified that this clause pertains to only the existing level of support. The actual support required to implement this arrangement has been described in the relevant section.	Supporting documents/ certificate from company's authorised signatory shall be submitted by the bidder.
16.	The quoted product should not be End of Life (EOL) at the time of bid submission and End of Support (EOS) during warranty period.	An undertaking in this regard, shall be submitted by the OEM along with the bid.

Note:-

Purchase Preference for Local Micro and Small Scale units/ Startup Enterprises of the state:-

The following purchase preference ratio shall be applicable to the Local Micro and Small Scale Units of State and Local Micro and Small Scale categories under H.P. State Startup Scheme:-

1. Local Micro and Small Scale Units of State of H.P. =15%
2. Local Micro and Small Scale categories under H.P. State, Startup Scheme=15%

Total Purchase Preference =30%)

Provided that if Startup Enterprises will not be available, then 30% purchase preference shall automatically be given to Local Micro & Small Scale Unit and vice versa as the case may be.

Exemption, if any in evaluation criteria or any other terms & conditions of this document, will be as per Notification No. 4-Ind/SP/Misc/F/6-10/4/80-Vol-V dated 16.05.2020 issued by Controller of Stores Himachal Pradesh or any other orders issued by Govt. of Himachal Pradesh in case the committee deems it fit.

The Bidder can choose to have a separate Authorised Service Provider (ASP). There is no turnover criterion for the ASP but it should provide the billing support and/ or first level of OEM's support which is fully backed up by the O.E.M. by means of a written

understanding regarding maintenance. However, the Purchaser shall have the final discretion in this regard and can even ask for a trilateral agreement with the Bidder and the OEM in such cases to ensure timely delivery and maintenance.

If the bidder happens to be a System Integrator (SI), should have a National presence besides meeting the turnover criteria and having a sustained relationship with the O.E.M. in the past. The Bidder (or his OEM) must be able to establish his capability to execute the order(s) by showing satisfactory/ timely delivery, where similar numbers of equipment(s) and its allied accessories are involved.

2.2 Cost of Bidding:

2.2.1 The Bidder shall bear all costs associated with the preparation and submission of its bid and H.P. State Electronics Development Corporation Ltd., Shimla (hereinafter referred to as the 'Purchaser' or "HPSEDC" in short) will in no case be responsible or liable for these costs, whether or not the Bid is finally accepted.

B- TENDER DOCUMENT

- 2.3 Contents of Tender Document:
- 2.3.1 This Tender Document comprises of the following Parts/ Sections.
- Section-1: Invitation for e-Bids
 - Section-2: Instructions to Bidders
 - Section-3: General Conditions of the Tender & Contract
 - Section-4: Technical Specifications and Maintenance Conditions
 - Section-5: Technical Specifications & Annexures.
- 2.4 The Bidder is expected to examine the Tender Document carefully. Failure to furnish all information required as per the Tender Document may result in the rejection of the Bid.
- 2.5 Clarification regarding Tender Document:
- 2.5.1 The clarifications/ changes in tender document/ corrigendum can be uploaded upto 3 days before the bid-submission date.
- 2.6 Amendment of Bids:
- 2.6.1 Bids once submitted cannot be amended. However, in some circumstances (such as major anomaly in the technical specifications having a major impact on pricing), the Purchaser may decide to take fresh bids from all the Bidders before actually opening of the Commercial Bids.
- 2.6.2 In order to afford prospective Bidders reasonable time to make amendment in their bids, the Purchaser may, at his discretion, extend the deadline for the submission of bids. However, no such request in this regard shall be binding on the Purchaser.

C - PREPARATION OF BIDS

- 2.7 Language of Bid & Correspondence:
- 2.7.1 The Bid will be prepared by the Bidder in English language only. All the documents relating to the Bid (including brochures) supplied by the Bidder should also be in English and the correspondence between the Bidder & Purchaser will be in English Language only. The correspondence by Fax / E-mail must be subsequently confirmed by a duly signed copy (unless already signed digitally).

2.8 Documents comprising of Bid:

The Bidder will prepare the bid in two parts.

I. FEE-ELIGIBILITY CLAIM-CUM-TECHNICAL BID:

In support of his eligibility cum technical bid, a Bidder must submit/upload the relevant documents strictly in accordance with Proforma B marked with page numbers on e-portal <https://hptenders.gov.in>.

Packet-I (Fee/other Eligibility Documents/Technical) (to be uploaded in Packet-1 on e-procurement portal)

This part of the Bid must comprise of the all the documents as mentioned in the pre-qualification criteria, as mentioned in Section 2.1 of this tender document. Further, the bidder must provide Compliance Sheets for the products quoted by the Bidder, along with copies of requisite certifications mentioned in the compliance sheets. Bidder shall also provide product catalogues of quoted items revised up to date. If some product up gradation has taken place since the printing of the brochures, latest authenticated releases/ bulletins must be enclosed and also indicate website links of the OEM & bidder.

II. COMMERCIAL BID:

Commercial Bids of only eligible and technically qualified bidders will be opened as per the date notified by the purchaser on its website (www.hpsedc.in and <https://hptender.gov.in>). Those technically qualified bidders which have also deposited the tender cost and Bid Security shall be termed as Substantially Responsive (i.e. eligible and technically qualified and have also deposited Bid Security & tender cost). The Tender Committee's determination of a Bid's responsiveness is to be based on the contents of the Bid itself and not on any extrinsic evidence. However, while determining the responsiveness of various Bidders, the Tender Committee may waive off any minor infirmity, which does not constitute a material deviation. The decision of the Tender Committee in this regard shall be final.

The bidder has to submit their Commercial Bids online as per BOQ in Packet-2 on the e-procurement portal.

(i) Sample BOQ / Price Bid will be as per Schedule I.

2.9 Bid Currencies:

2.9.1 Prices shall be quoted in Indian Rupees.

2.9.2 The contract price shall be paid in Indian Rupees.

2.10 Bid Security:

2.10.1 The Bidder shall furnish Bid security, as part of its bid as mentioned hereunder. Any bid submitted without bid security or with the lesser bid amount, as indicated below may be rejected being non-responsive.

Sr. No.	Description	Bid security amount in Rupees.
1.	Setting up of Wi-Fi network in University campus at Nauni (Solan)	Rs 4,00,000/- (Rupees Four lakh only).

2.10.2 The Bid Security is required to protect the Purchaser against the risk of Bidder's conduct which may require forfeiture of security pursuant to Para 2.10.8.

2.10.3. The Bid Security shall be in the shape of BG/ Demand Draft/ through RTGS in favour of "M.D., H.P State Electronics Development Corporation Ltd., Shimla" Payable at Shimla.

2.10.4 Any bid not secured in accordance with Para 2.10.1 and 2.10.3 will be rejected by the Purchaser.

2.10.5 Unsuccessful Bidders' Bid Security will be refunded as promptly as possible.

2.10.6 The successful Bidder's bid-security will be discharged upon the Bidders executing the contract and furnishing the performance security in accordance with Para 3.5.1.

2.10.7 No interest will be payable by the Purchaser on the above mentioned Bid Security.

2.10.8 The Bid Security may be forfeited:

1. If a Bidder withdraws its bid during the period of bid validity specified by the bidder and required by the Purchaser.
2. During the tendering process, if a Bidder indulges in any such activity as would jeopardise or unnecessarily delay the tender process. The decision of the Purchaser regarding forfeiture of the Bid Security/EMD shall be final & shall not be called upon question under any circumstances.
3. In the case of a successful Bidder, if the Bidder fails,

- (i) to sign the contract by raising issues contrary to the provisions of the RFP or the Bid or undertakings given during evaluation of bids, or
- (ii) to furnish Performance Security, or
- (iii) Violates any of such important conditions of this tender document or indulges in any such activity as would jeopardise the interest of the Purchaser. The decision of the Purchaser regarding forfeiture of the Bid Security shall be final & shall not be called upon question under any circumstances.

2.11 Period of validity of Bids:

2.11.1 For the purpose of placing the order, the Bids shall remain valid for at least 120 days after the date of bid opening. A bid valid for a shorter period may be rejected by the Purchaser as being non-responsive. During the period of validity of Bids, the rates quoted shall not change. However, in case of general fall in prices of a product in the IT/ Electronics Industry before despatch of goods, such a reduction shall be passed on to the Purchaser after mutual negotiations.

2.11.2 In exceptional circumstances, the Purchaser may ask for extension of the period of validity and such a request shall be binding on the Bidder. The Purchaser's request and the response to such a request by various Bidders shall be in writing. A Bidder agreeing to such an extension will not be permitted to increase its rates.

D-SUBMISSION OF BIDS

2.12 Submission of Bids:

2.12.1 Bidder(s) shall submit their bids only on online e-procurement portal www.hptenders.gov.in. All the instructions regarding e-bids submission are also available on www.hptenders.gov.in.

2.12.2 The original DD/ BG or RTGS documents related to tender cost and bid security should be deposited in HPSEDC on or before the last date and time for bids opening.

2.12.3 Every envelop and forwarding letter of various parts of the Bid shall be addressed as follows:

The Managing Director,
H.P. State Electronics Development Corporation Ltd., First Floor,
IT Bhawan, Mehli, Shimla-171013.

2.13. Deadline for Submission of Bids:

2.13.1 Bids will be online submitted/uploaded on e-procurement portal <https://hptenders.gov.in> on or before the deadline mentioned on the e-portal.

2.13.2 The Purchaser may, at its discretion, extend this deadline as per Para 2.6.2. The Purchaser may also extend this deadline for any other administrative reason.

2.14. Bids not submitted online:

2.14.1 Any bid not submitted/uploaded through e-portal will not be received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser, as per clause 2.13.1 or 2.13.2, will be rejected.

2.15 Modification and withdrawal of Bids:

2.15.1 E-bids can be modified upto last date & time has not been closed by e-procurement system.

2.15.2 E-Bids cannot be withdrawn in the interval after its submission of bids and before the expiry of Bid's validity specified by the Purchaser. Withdrawal of Bid during this interval may result in the forfeiture of Bidder's Bid security pursuant to clause 2.10.8.

E-BID OPENING AND EVALUATION

2.16. Opening of bids by Purchaser:

2.16.1 The e-Bids shall be opened on the date and time already described in the tender/e-portal or on any other later day and time fixed as per Para 2.6.2 or other enabling provisions in this behalf, in H.P State Electronics Development Corporation Ltd, First Floor, IT Bhawan, Mehli, Shimla-13 (H.P.) in the presence of representatives of the Bidders who may choose to attend the proceedings. The representatives of Bidders will sign a register in evidence of their presence.

2.16.2 In order to assist in the examination, evaluation and comparison of Bids, the Purchaser may at its discretion ask the Bidder for a clarification regarding its Bid. The clarification shall be given in writing, but no change in the price or substance of the Bid shall be sought, offered or permitted.

2.16.3 Eligibility-cum-technical bid documents uploaded on the e-portal will be opened and evaluated for eligibility of each Bidder will be ascertained. The product proposed in the bid document will be evaluated as per the requirements specified in the RFP/ Tender Document. The "Fact Sheets" submitted by the Bidders shall be compared against the Product Catalogue and authenticated circulars regarding latest changes in the specifications. It will thus be ascertained whether the product offered by the Bidder matches with the minimum requirement of the Purchaser as given in the Technical Specifications in this Tender Document. In case of a doubt the Purchaser may require the bidder to produce the quoted equipment for physical inspection and demonstration, so that components could be seen to ascertain the veracity of the Bidder's claim about specifications.

The Tender Committee may undertake oral and or written clarifications with the bidders. The primary function of clarifications in the evaluation process is to clarify ambiguities and uncertainties arising out of the evaluation of the bid documents. The financial bids of only eligible and technically qualified bidders will be opened for further processing. It is, however, clarified that subject to other provisions of this document, every bidder will have to fulfil the minimum technical specifications laid down in this document for being qualified technically. In order to assist in the examination, evaluation and comparison of

Bids, the Tender Committee may at its discretion ask the Bidder for a clarification regarding its Bid. The clarification shall be given in writing immediately, but no change in the price shall be sought, offered or permitted. The Technical e-Bids of only the Eligible Bidders will be opened and the contents (particularly Compliance Sheets) will be announced in the presence of all Bidders or their representatives. An open discussion regarding technical parameters quoted by various Bidders may also take place, if required. The Compliance/ Deviation statement submitted by the Bidders shall be compared against the Product Catalogues and authenticated circulars regarding latest changes in the specifications. It will thus be ascertained whether the product offered by the Bidder matches with the minimum requirement as given in the Technical Specifications in this Tender Document. The Financial Bids of only those eligible and technically qualified bidders will be opened who also fulfil minimum technical requirements mentioned in this document. However, the Tender Committee reserves the right of giving minor relaxation, if a particular Bidder is not able to exactly match the specifications given in the Tender Document, provided that such a minor deficiency does not substantially reduce the performance level and is suitably compensated by some extra feature in the product. Therefore, all Bidders must indicate in the Compliance/Deviation, if any, in Schedule III, extra features offered by them. Similarly, the Tender Committee can give any other such minor relaxation, which does not change substance of the bid or does not prejudice the bid process from the point of view of equity and fair play. The decision of the Tender Committee about giving minor relaxation shall be final and shall not be called upon question under any circumstances.

The commercial Bids of only those bidders will be opened who fulfils the minimum technical requirements of the purchaser and are found substantially responsive as per Para 2.8 (II) read in conjunction with other relevant clauses/Forms. However, the Purchaser reserves the right of giving minor relaxation, if a particular Bidder is not able to exactly match the specifications given in the document, provided that such a minor deficiency does not substantially reduce the performance level and is suitably compensated by some extra feature in the product. Therefore, all Bidders must indicate in the

Compliance Sheets, deviations, if any, extra features offered by them. The decision of the Purchaser about giving minor relaxation shall be final and shall not be called upon question under any circumstances. The evaluation committee, if so desire may ask for the demonstration of the quoted solution/products, for which sufficient time will be given for arranging demonstration.

2.16.6. Opening of Bid Security:

The document containing bid security will be opened and checked at the time of determining eligibility of the bidders at the time of eligibility bid opening.

2.16.7. Opening of Commercial Bids of substantially Responsive Bidders:

The Commercial Bids of only those Bidders will be opened who are found substantially responsive. A Substantially Responsive Bidder is one which conforms to all the stipulations of para 2.8 (II and III) read with para 2.16.6 above. The Purchaser's determination of a Bid's responsiveness is to be based on the contents of the Bid itself and not on any extrinsic evidence. However, while determining the responsiveness of various Bidders the Purchaser may waive off any minor infirmity, which does not constitute a material deviation. The decision of the Purchaser in this regard shall be final.

2.16.8 A Bid determined as not substantially responsive will be rejected by the Purchaser. Such a Bid will not be normally allowed to be made responsive subsequently by way of correction/ modification.

2.17. Evaluation and Comparison of Commercial Bids:

2.17.1 The comparison of Commercial Bids shall be done as follows:

2.17.2 Bid Comparison:

The Bidders are required to complete their Commercial Bid/ BOQ in Schedule - I. Initial evaluation/ comparison of items within a Category given in the Tender Document will be done as per clause 2.17.3.

2.17.3. Item Rate:

Item Rate for each item for all will be calculated as under;

Item Rate = FOR Destination Unit Price of the Item including installation charges (if any) with three years warranty inclusive GST of the Item in a Category.

Note 1:

The Bidder shall not quote prices subject to certain conditions. Bids containing any conditional prices may be rejected or the Purchaser may take a final decision in its

discretion about such conditionality.

2.17.4 In the procurements of goods, the following procedure shall be followed:

(i) Among all qualified bids, the lowest bid will be termed as L1. If L-1 is from a local supplier, the contract for full quantity will be awarded to L1.

(ii) If L-1 bid is not from a local supplier, 50% of the order quantity shall be awarded to L-1.

2.17.5 Thereafter, the lowest bidder among the local suppliers, will be invited to match the L-1 price for the remaining 50% quantity subject to the local supplier's quoted price falling within the margin of @5% and contract for that quantity shall be awarded to such local supplier subject to matching the L-1 price. In case such lowest eligible local supplier fails to match the L-1 price or accepts less than the offered quantity, the next higher local supplier within the margin of @5% shall be invited to match the L-1 price for remaining quantity and so on, and contract shall be awarded accordingly.

2.17.6 In case some quantity is still left uncovered on local suppliers, then such balance quantity may also be ordered on the L1 bidder.

2.18. RANKING OF BIDDERS:

2.18.1. Bidders will be ranked in the inverse order of Item Rate. The criterion for selection of lowest Bidder (L1) for individual item.

2.18.2 Reduction in Statutory Duties and Levies:

If any reduction in taxes takes place after opening the commercial bids, but before despatch of goods; the Successful Bidder shall pass on the proportional benefit to the Purchaser. However, if any such reduction takes place after the opening of bids but before the finalisation of tender, revised sealed commercial bids shall be taken.

2.19. NEGOTIATIONS:

2.19.1 The Purchaser may finalise the Tender & award the Contract without any negotiations, if it is satisfied with reasonableness & workability of the lowest offers. Therefore, the bidders are advised to quote lowest possible rates in the first instance only.

2.19.2 During the negotiations a revised offer will be taken from the representative of the Bidder by way of sealed bids. This revised offer will replace/supersede the earlier Technical & Commercial Bid, provided that the original offer (i.e. Technical/ Commercial) will not be allowed to be changed to the detriment of

the Purchaser, as far as rates of every individual item & terms/ conditions are concerned. Therefore, Bidders are advised to send sufficiently senior representatives (who can take spot decisions) for negotiations.

2.19.4 During the negotiations on prices & other related terms/conditions, prevalent worldwide street-prices of such product, prices finalised in bids of similar size on GEM portal/Other State Government tender/rate contract etc. will be kept in mind. The scope of negotiations may also include precise *modus-operandi* of after-sales service, mode of delivery, system integration and price of add-ons & consumables etc.

2.19.5 During the negotiations, the Purchaser may even go in for marginally higher or lower configurations as per its absolute discretion.

2.19.6 After this final ranking is done based on negotiated prices, award of tender/rate contract will be made to the lowest Bidder, subject to post qualification in Para 2.20 below.

F - AWARD OF CONTRACT

2.20 Post Qualification:

2.20.1 HPSEDC will devise a performance criteria in consultation with successful bidders which will include online after sales feedback from the Government departments. The lowest Bidder can be denied the right of continuing with the contract, if the equipment being supplied by him, fails the standard performance criteria. In such an event, the next lowest bidder (L-2) shall be considered.

2.21 Purchaser's right to vary Quantities:

2.21.1 The Purchaser reserves the right to place the supply received from various Government departments/ Govt. Institutions/ Autonomous bodies on the approved vendors during the currency of the tender/rate contract.

2.22 Purchaser's Right to accept any Bid and to reject any or all Bids:

2.22.1 Notwithstanding anything else contained to contrary in this Tender Document, The Purchaser reserves the right to accept or reject any Bid or to annul the bidding process fully or partially or modifying the same and to reject all Bids at any time prior to the award of Contract, without incurring any liabilities in this regard.

2.23 Notification of Award:

2.23.1 Prior to the expiry of the period of Bid validity, the Purchaser will notify the successful Bidder in writing by speed post or Fax or email that his Bid has been accepted.

2.23.2 The liability of the supplier(s) to deliver the Goods and perform the services will commence from the "date of Notification of Award". The Delivery Period shall be counted from the date of 'Placing the Supply Order'. The "date of delivery" shall be the date on which the equipment / material is received at the destinations.

2.23.3 Upon the successful Bidders' furnishing of performance security, the purchaser will promptly notify each unsuccessful Bidder and will refund his Bid Security.

2.24 Signing of Contract:

2.24.1 After the Purchaser notifies the successful Bidder(s) that his 'Bid' has been accepted, the Purchaser will sign an agreement (described as Contract herein after) within 10 days with the successful Bidder on mutually agreed terms for efficacious implementation of the order.

2.24.2 The Purchaser's liability of taking the goods from the selected supplier(s) shall commence only from date of signing the date of the Contract.

SECTION-3

GENERAL CONDITIONS OF THE TENDER & CONTRACT

3.1 Definitions:

3.1.1 In this part, the following interpretation of terms shall be taken:

- (a) "The Contract" means an agreement regarding supply of the goods & provision of services entered into between the HPSEDC and the Supplier, as recorded in the Contract Form signed by the parties, including all appendices thereto and all documents incorporated by reference therein.
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) "The Goods" means all the equipment and/or other material, which the Supplier is required to supply to the Purchaser under the Contract.
- (d) "Services" mean services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, training, maintenance and other such obligations of the Supplier covered under the Contract.
- (e) "The Purchaser" means the H.P. State Electronics Dev. Corporation Ltd" or "HPSEDC" in short.
- (f) "The Supplier", means short listed Bidder supplying the goods and services under this Contract.
- (g) "End User" means various Government Departments, Boards, and Corporation etc. in the State of Himachal Pradesh.

Note: The aforesaid definitions will be valid with respect to one or more Suppliers short-listed to execute the Project. Services to be executed by each Supplier have been explained in detail in this Tender Document.

3.2. Application:

3.2.1 These General Conditions shall apply to the extent that these are not superseded specific by provisions in other parts of this tender document. A detailed Contract agreement shall be signed after the order is placed. Detailed provisions of such a contract-agreement shall have an over-riding effect vis-a-vis this Tender Document.

3.3 Standards:

3.3.1 The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications and the latest improvements incorporated after the finalisation of contract, but before the dispatch.

3.4 Patent Rights of the Goods:

3.4.1 The Supplier shall indemnify the Purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the goods or any part thereof in India.

3.5 Performance Security:

3.5.1 Performance Security for delivery/ installation and maintenance during warranty period.

3.5.2 Within 10 days of 'Notification of Award', the successful bidder/ Supplier shall initially furnish a 3% Performance Bank Guarantee of total order value valid for 39 months to safeguard the purchaser against timely delivery/installation and maintenance of ordered equipments during the currency of the contract. This will be further renewed for 39 months to ensure the after sale support of equipments supplied under the contract are under warranty.

(1) In case supply orders increases the above mentioned quantity then 3% amount of each supply order will be deducted as PBG from due payment from bidder & same will be released after expiry of the warranty period or bidder has an option to submit additional PBG against the supply order.

(3) EMD of successful bidder(s) will only be released after signing of agreement and submission of PBG.

3.5.3 The proceeds of the Performance Bank Guarantee/ additional Performance Bank Guarantee shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete his obligations under the Contract. The Purchaser may claim such compensation in addition to initiating any other legal proceedings.

3.5.4 The Performance Bank Guarantee shall be given in one of the following forms:

An irrevocable and unconditional Bank Guarantee in favour of the Purchaser issued by a Nationalised/schedule bank in a format given by the Purchaser. This

Bank Guarantee should be of a sufficient duration to cover the risk of the Purchaser.

- 3.5.5 The Performance Bank Guarantee, regarding delivery & installation will be discharged by the Purchaser and returned to the Supplier not later than 30 days following the date of completion of the Supplier's performance related obligations, under the Contract (excluding after sales maintenance for which separate performance guarantee has been taken).

3.6 Inspections and Tests:

- 3.6.1 The Purchaser or its representative shall have the right (if so desire) to test the goods to ascertain their conformity to the specifications. The Purchaser shall notify to the Supplier in writing of the identity of the representative deputed for this purpose & nature of tests that may be conducted (if found necessary) for benchmarking.
- 3.6.2 The inspections and tests may be conducted in the factory premises of the Supplier. All reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspecting officers at no charge to the Purchaser. The Contractor shall inform the Purchaser in advance the time of starting of manufacture and the progress of manufacture of the equipments offered by him so that arrangements can be made for inspection at the premises, if so desired by the purchaser.
- 3.6.3 Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject them and the Supplier shall either replace the rejected goods or make all alterations necessary to meet specification requirements to the Purchaser.
- 3.6.4 If the Purchaser decides to conduct the inspection at supplier's premises as per clause 3.6.1 to 3.6.3, no material being furnished against this specification shall be dispatched until inspected and approved by the Purchaser/ or his representative. Such inspection and approval will not relieve the Contractor of full responsibility for furnishing equipment conforming to the specifications nor will it prejudice any claim, right or privilege which the Purchaser may have on account of any loss sustained by it due to defective or unsatisfactory equipment supplied by the contractor. Should the inspection be waived off by the Purchaser, such waiver shall not relieve the contractor in any way from his contractual obligations.

RFP for Setting up of Wi-Fi network in University campus at Nauni (Solan)

- 3.6.5 The sample of the proposed Equipment, if desired by the purchaser, to be supplied for approval/testing.
- 3.6.6 Bidder has to provide the required drivers etc. if essentially required for the quoted equipment/peripherals being supplied.
- 3.6.8 Bidder has to provide necessary support by providing required drivers for connecting the hardware devices being used at the user site. All these drivers should be freely available on the OEM website for which necessary links may be provided.
- 3.6.9 Bidder has to install the patches/upgrades during warranty period at no extra cost.
- 3.6.10 GUI tools for configuring devices with Multilingual support for Hindi.
- 3.6.12 Bidder should provide service maintenance of System Software / driver software up-gradations, installing patches etc., at no extra cost during the warranty period.
- 3.6.13 All drivers patches required at site are to be arranged by the supplier and should be available on the website of the respective OEM.
- 3.16.14 The Supplier of items shall depute its technical person, if end user is facing problem in installation/working of software. On-line support will be made available without any charges to end user.

3.7 Packing Delivery & Documentation:

- 3.7.1 The supplier shall provide such packing as is required to prevent damage or deterioration of the goods during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitations, rough handling during transit and exposure to extreme temperatures and precipitation during transit and open storage. The Supplier shall be responsible for any defect in packing.
- 3.7.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as will be specifically provided for in the contract.
- 3.7.3 Delivery of the goods and associated documentation will be done in such manner as may be prescribed by the Purchaser in the Contract.

3.8 Insurance:

- 3.8.1 The Goods supplied under the Contract shall be fully insured against loss or

damage incidental to manufacture or acquisition, transportation, storage and delivery.

3.8.2 The supplier will indemnify the Purchaser from all responsibility of compensation etc. caused by third party injury including death while he is discharging his duties under the contract.

3.9 Transportation:

3.9.1 The entire cost of carriage/transportation from the port of discharge to the destination shall be borne by the Supplier.

3.9.2 Where the Supplier is required to affect delivery to some other address within Himachal Pradesh, the supplier shall be required to meet all transport and storage expenses until delivery is completed.

3.10 Literature and Instruction:

3.10.1 Each supplied equipments packing box must contain copy of illustrated literature and instruction books regarding the installation, handling, maintenance and use of the Goods at each station shall be supplied by the supplier as part of the Contract price before dispatch of the first assignment.

3.11 Payment:

3.11.1 **First Instalment:** First Instalment shall be paid after delivery of the Goods at the prescribed destinations. Amount of 1st instalment shall be regulated in such a manner that the total payment after delivery is 85% of the order value. A claim for first instalment shall be staked by the Supplier, when he has supplied adequate number of machines. The first installment of 85% will be paid only after receipt of duly acknowledged delivery challans & invoice, as required by the Purchaser.

3.11.2 **Second Instalment:** Remaining amount of 15% of the order value shall be paid after satisfactory installation of equipments and execution of Performance Guarantee for proper maintenance during warranty period as mentioned at Clause 3.5. If the installation is delayed beyond 45 days on account of site not being ready (or any other reasons entirely attributable to the Purchaser) or any other reason attributable to the Purchaser, $\frac{2}{3}$ of the second instalment (i.e. 10% of the order value) shall be released to the Supplier subject to submission of site not ready (SNR) report from concerned department. In such an unlikely event of the site not being ready, the remaining amount $\frac{1}{3}$ of the second instalment (i.e. 5% of order value) will be released after submission of successful installation reports of the

ordered equipment(s) duly signed by the competent authority of the department(s).

Note: *First & second instalments shall be released only on production of bill supported by delivery challan and installation report by the Supplier. Any bill supported by requisite documents will be processed within 15 days and objections, if any, will be conveyed in one go within this period. If the claim is found in order, the payment will be made within 2 weeks from the date of submission of such bills.*

3.12 Prices:

3.12.1 Subject to the provision to Rule 2.11.1, the prices charged by the Supplier for Goods delivered and services performed under the Contract shall not vary from the prices quoted by the Supplier in his Bid. But in case of global or national fall in prices of a product in IT/ Electronics industry due to a change in Government Policy or otherwise, such a reduction shall be passed on to the Purchaser after mutual negotiations.

3.12.2 There shall be no effect of the exchange rate variation etc., on the rates to be quoted by the Vendor during one-year period. However, if rates will increase/decrease, HPSEDC will call techno-commercial bids from the empanelled bidders on requests received from them.

3.13 Modification in the Order:

3.13.1 The Purchaser may at any time, by written order given to the Supplier make changes within the general scope of the Contract in anyone or more of the following:

- (a) The specifications of the Goods
- (b) The method of shipment or packing
- (c) The service to be provided by the Supplier
- (d) Quantity of goods
- (e) Any other change that the purchaser may deem fit

3.13.2 If any such change causes an increase or decrease in the cost of, or the time required for the Supplier's performance of any part of the work under the Contract, an equitable adjustment shall be made in the Contract price or delivery Schedule, or both, and the Contract shall accordingly be amended. Any claims by the

Supplier for adjustment under this clause must be put forth within 30 days from the date of the Supplier's receipt of the Purchaser's change order.

3.14 Subcontract:

3.14.1 The Supplier shall not assign in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

3.14.2 The Supplier shall notify the Purchaser, in advance in writing, of all sub-Contracts awarded under the Contract if not already specified in his bid. Such notification, in his original bid or later (even if with prior approval of Purchaser) shall not relieve the Supplier of any liability or obligations under the Contract.

3.14.3 Subcontracts must comply with the provisions of the clause 2.3.

3.15 Delays in the Supplier's Performance:

3.15.1 Delivery of the goods and the performance of services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser in the Contract.

3.15.2 Any unjustifiable delay by the Supplier in the performance of his delivery obligation may render the Supplier liable to any or all the following:

- (i) Forfeiture of its performance security,
- (ii) Imposition of liquidated damages @Rs 50/- per day per equipments of the unfulfilled order. The maximum penalty will not exceed 10% of the order value.
- (iii) Termination of the contract and risk purchase at Supplier's risk
- (iv) Initiation of any other legal proceedings.

3.15.3 The Supplier will strictly adhere to the time-schedule for the performance of Contract. However, the Purchaser can relax this time limit in force majeure conditions.

3.16 Termination for Default:

3.16.1 The Purchaser may without prejudice to any other remedy for breach of contract, (including forfeiture of Performance Security) by written notice of default sent to the supplier, terminate the Contract in whole or in part after sending a notice to the Supplier in this regard.

- (a) if the Supplier fails to deliver any or all of the goods within the time

period(s) specified in the Contract, or any extension thereof granted by the Purchaser pursuant to clause 2.11.2, or

(b) If the Supplier fails to perform any other obligation under the Contract.

3.16.2 In the event the Purchaser terminates the Contract in whole or in part, he may procure, upon such terms in such manner, as it deems appropriate, goods similar to those undelivered, and the Supplier shall be liable to pay excess cost of such similar goods to the Purchaser. This liability will be in addition to forfeiture of performance guarantee and any other legal proceedings, which the Purchaser may initiate as per Para 3.15.2.

3.17 Force Majeure:

3.17.1 Notwithstanding the provisions of the clauses 3.15 and 3.16, the Supplier shall not be liable for forfeiture of its performance security or termination for default, or payment of any damages, if and to the extent that his delay in performance under the Contract is the result of an event of Force Majeure.

3.17.2 For purpose 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 restricted to, acts of the Purchaser either in its sovereign or contractual capacity, war, revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

3.17.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing or 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 reasonably practical, and shall seek all reasonable alternative means for performance, not prevented by the *Force Majeure* event.

3.18 Taxes and Duties:

3.18.1 Supplier shall be entirely responsible for payment of all taxes, duties and levies, imposed up to/until the delivery point specified in the Contract. If there is a reduction in any of the statutory duties and levies before the despatch of goods, the benefit of the same will be passed on to the Purchaser.

3.19 Limitation of Liability:

The liability of the supplier in respect of all claims under this tender including penalty for delay in delivery, services, liquidity damages etc. shall not exceed the

aggregate value of the goods and services supplied under this tender. Either party shall not be liable for any claim made for any indirect, consequential or incidental losses and indirect damages, costs or other expenses related thereto.

3.20 Arbitration:

All disputes, differences, claims and demands arising under this tender shall be referred to arbitration of a sole arbitrator to be appointed with mutual consent of both the parties. All arbitration will be held in Shimla. If the parties cannot agree on the appointment of the Arbitrator within a period of one month from the notification by one party to the other of existence of any dispute and need for appointment of an arbitrator. Further action will be taken in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the award made under this tender shall be final and binding upon the parties hereto, subject to legal remedies available under the law.

SECTION-4

TECHNICAL SPECIFICATIONS AND MAINTENANCE CONDITIONS

4.1. SCOPE OF THE TENDER:

The successful Bidder(s) will provide the following services:

(i) Manufacture /Import (ii) Testing (iii) Supply (iv) Installation (v) After Sales Service during warranty and Annual Maintenance period.

(i) Manufacture/Import.

The OEM/ Bidder can manufacture the Goods in India or import the same (in full or in parts) from any part of the world.

(ii) Testing.

Testing/ Benchmarking as per requirement of the Purchaser and in such manner and for such size of sample as may be prescribed subsequently may be got done as a part of the Contract.

(iii) Supply

The Goods need to be supplied F.O.R. as per the list of destinations to be supplied at the time of signing the Contract.

(iv) Installation and Commissioning of WiFi setup: The successful bidder of respective equipments will do installation and ensure that the equipment supplied works/run properly.

(v) After-Sales-Services

The supplier shall keep equipments as spare (as finalised of tender to be mutually decided), to provide immediate replacement, with the service centre during the warranty period. It will be desirable that minor functional problems of these equipments are taken care of by the service centre only. In case of major & specific problems, respective vendors will have to rectify the defect within the time-limits prescribed in Para 4.2.2 below, otherwise must have to replace with the new one.

4.2 AFTER SALES SERVICES:

4.2.1 Comprehensive Warranty:

The Supplier shall provide Comprehensive OEM warranty (including labour and spares) for 36 calendar months. The warranty shall cover the System Software, Labour and all the hardware parts including updation/ upgradation (free of cost) of the wifi networking infrastructure. An undertaking to this effect shall be given by the Bidder in the Compliance Sheets. The supplier of Items shall ensure genuine add-ons items & consumables for the items sold in the state for their own brand.

4.2.2 Service Centre:

The successful bidder should have a dedicated service centre in the state. The Service Centres in the State shall be manned by qualified Engineers as per Clause 4.1(v) above and one call coordinator. It will be equipped, with sufficient inventory of spares as per ABC Analysis. The supplier will provide prompt after sales support and shall attend any complaint not later than 24 hours. The minor and major defects shall be rectified not later than 36 hours and 60 hours respectively. If defect is not rectified within the time stipulated as above penalty as prescribed by the Purchaser will be imposed. However, the penalty in such instances shall not exceed 10% of the equipments cost against a non-attendance/ non rectification of defects against a service call. The exact quantum of penalty per day/ week shall be decided at the time of signing the contract. During the warranty period, this penal clause will be enforced by ensuring that the supplier gives a Performance Security by way of Bank Guarantee to the Purchaser.

4.2.3 Inventory of Spares:

An ABC analysis of inventory of spares shall be done by the Purchaser in consultation with the supplier to ensure that all critical spares/ components apart from the 1% inventory of new equipments for replacement purposes (if equipment are beyond repair within 24 hours) are available with the Service Centres in sufficient quantity.

4.2.4 The amount of non-delivery of products as mentioned in Clause No. 3.15: **Delays in the Supplier's Performance** and Clause No. **4.2: After Sale Services** or any other recoverable amount from bidder(s) may be adjusted/ recovered or set-off against any sum payable to the bidder against any other

contract with HPSEDC or with State Government. The amount shown against that shall be withheld to be adjusted against the compensation levied as mentioned above. Recovering or deducting of this amount on failure of delivery/ delay in delivery or not providing services in time bound manner, shall be automatic deducted without any notice to the concerned bidder.

The Managing Director, HPSEDC, will reserve the right to relax/ decrease the penalties or release recovered amount without giving any interest to the bidder(s), after receiving justified/ reasonable reasons from the bidder(s).

4.3 TECHNICAL SPECIFICATIONS & QUANTITIES:

4.3.1 The Technical Specifications have been given in Annexure-I in Section-5. These specifications should be carefully studied by the Bidder, so that the product could be technically evaluated as per the Purchaser's requirement.

4.4. Compliance sheets:

- (i) Compliance Sheets as per Annexure-I in Section-5 are to be filled in by the bidders as part of the Bid. These Compliance Sheets should be complete in all respects and should be free from errors and omissions. All required parameters must be replied to in affirmative/ negative.
- (ii) The Bidder shall also supply along with the Bid all brochures and authenticated bulletins carrying latest changes covering the technical aspects of each item appearing in schedule of requirement intended to be supplied by the Bidder. For the purpose of establishing latest changes, print-outs down loaded from INTERNET (& duly authenticated) may be acceptable.

5. Acceptance Testing After Notification of Award:

- i. The Purchaser may conduct benchmarking & acceptance test, which could involve operation of complete system for at least two consecutive days. The Supplier(s) will provide full assistance in this regard. Partial delivery/ installation/ testing of hardware/ system software will not be permissible for acceptance/ payment. The criteria for benchmarking/ acceptance will be conveyed separately.

RFP for Setting up of Wi-Fi network in University campus at Nauni (Solan)

PROFORMA- A
(Declaration by the O.E.M.)
[Para 2.8(I)(ii)]

To Date:

The Managing Director,
H.P. State Electronics Development Corporation Ltd.,
1st Floor, IT Bhawan, Mehli, Shimla- 171013.

Subject: Authorisation to a distributor for tender No: SEDC/Nauni/NETWORK/2K22-154

Dear Sir,

Please refer to your Notice Inviting Tenders for setting up of Wi-Fi network published in “The Indian Express” and “Amar Ujala”.

M/s _____ (Bidder), who is our reliable distributor for the last _____ years, is hereby authorised to quote on our behalf for this prestigious tender. M/s _____ (Bidder) is likely to continue as our business partner during _____ years to come. We undertake the following regarding the supply of these equipments/ peripherals etc.

1. The Machines supplied in this tender shall be manufactured by us as per the specifications required by the Purchaser. M/s _____ (Bidder) shall not be allowed to do any hardware integration on our equipment.
2. It will be ensured that in the event of being awarded the contract, the WiFi set up equipments will be delivered by M/s _____ (Bidder) & maintained by M/s _____ (ASP) properly as per the conditions of the contract. For this purpose, we shall provide M/S _____ necessary technical support including technical updates, & spares to the ASP. If M/s _____ fails to maintain the equipments for any reason what-so-ever, we shall make alternative arrangements for proper maintenance of these components during the warranty period. We shall provide full support back up to the Bidder/ASP. On the whole, it shall be ensured that the clauses regarding service and maintenance of Machines do not get diluted in implementation due to non-availability of spares and lack of technical inputs from our side even during AMC/extended warranty period.
3. If due to any reason whatsoever, the tie up between our Company & M/s _____ (Bidder) or M/s _____ (ASP) breaks down subsequently, we shall make necessary alternatives arrangements for honouring the terms of the contract.

Yours very truly,

Name : _____
Designation: _____
Company: _____

FORM-B

DECLARATION REGARDING ACCEPTANCE OF TERMS & CONDITIONS CONTAINED
IN THE TENDER DOCUMENT

To

The Managing Director,
H.P. State Electronics Development Corporation Ltd.,
1st Floor, IT Bhawan, Mehli, Shimla-171013.

Sir,

I have carefully gone through the Terms & Conditions contained in the Tender Document [No.: SEDC/Nauni/NETWORK/2K22-154] regarding setting up of Wi-Fi network equipments for Tender/Rate Contract by HPSEDC. I declare that all the provisions of this Tender Document contained in this tender and subsequent corrigendum(s)/ clarifications issued from time to time are acceptable to my Company/firm. I further certify that I am an authorised signatory of my company and am, therefore, competent to make this declaration.

Yours very truly,

Name: _____

Designation: _____

Company: _____

Address: _____

Contact No:

Email-id:

FORM-C

DECLARATION REGARDING PAST PERFORMANCE

To

The Managing Director,
H.P. State Electronics Development Corporation Ltd.,
1st Floor, IT Bhawan, Mehli, Shimla-13.

Sir,

I have carefully gone through the Terms & Conditions contained in the Tender Document [No. SEDC/Nauni/NETWORK/2K22-154] regarding Tender/ rate contract of setting up of Wi-Fi network by HPSEDC. I hereby declare that my company has not been debarred/black listed by any Government / Semi Government organizations for quality/ service products nor is there any pending dispute regarding short shipment/ installation/service. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours truly,

Name: _____

Designation: _____

Company: _____

Address: _____

Contact No:

Email-id:

SCHEDULE - I

SAMPLE OF PRICE SCHEDULE/BOQ

[Para 2.8 (III)(i)]

(to be completed by bidder as per the format available on e-procurement portal

<https://hptenders.gov.in>)

PRICE SCHEDULE									
(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)									
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)									
Sl. No.	Item Description	Qty	BASIC RATE with installation (if any) and five years warranty In Figures To be entered by the Bidder in Rs. P	GST Amount in percentage (%)	GST amount in Rupees Rs. P	Unit Price with GST Rs. P	TOTAL AMOUNT Without Taxes with five year warranty Rs. P	Gross Bid Value Inclusive installation and Taxes (for five year onsite OEM warranty) Rs. P	TOTAL AMOUNT In Words
1	Item No 1: Router (In numbers)	1			0.00	0.00	0.00	0.00	INR Zero Only
2	Item No 2: Indoor Access Point (In numbers)	271			0.00	0.00	0.00	0.00	INR Zero Only
3	Item No 3: Outdoor Access Point (In numbers)	48			0.00	0.00	0.00	0.00	INR Zero Only
4	Item No 4: Wireless Controller (In numbers)	1			0.00	0.00	0.00	0.00	INR Zero Only
5	Item No 5: Core Switch(In numbers)	2			0.00	0.00	0.00	0.00	INR Zero Only
6	Item No 6: Distribution Switch (In numbers)	10			0.00	0.00	0.00	0.00	INR Zero Only
7	Item No 7: 24 Port POE Switch (In numbers)	49			0.00	0.00	0.00	0.00	INR Zero Only
8	Item No 8: 8 Port POE Switch (In numbers)	17			0.00	0.00	0.00	0.00	INR Zero Only
9	Item No 9 : 1G Fiber Module : IEEE802.3z 1000BASE-LX (In numbers)	1			0.00	0.00	0.00	0.00	INR Zero Only

RFP for Setting up of Wi-Fi network in University campus at Nauri (Solan)

10	<i>Item No 10: 10G Fiber Module: IEEE-802.3ae 10GBASE-LR (In numbers)</i>	10			0.00	0.00	0.00	0.00	INR Zero Only
11	<i>Item No 11: Network Management System (Switch Specification) (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
12	<i>Item No 12: Optical fiber cable (In Meters)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
13	<i>Item No 13: Pigtail LC LSZH SM (OS2) - 1 Mtr (In Meters)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
14	<i>Item No 14: 12 Port LIU (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
15	<i>Item No 15: Optical Fiber Patch Cord SM LC to LC Fiber LSZH Duplex Patch Cord (OS2) (In Meters)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
16	<i>Item No 16: Unshielded Twisted Pair Category 6 Cable (In Meters)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
17	<i>Item No 17: Cat 6 UTP Loaded Patch Panel - 24 port (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
18	<i>Item No 18: Cat 6 UTP Patch cord (In Meters)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
19	<i>Item No 19: Information Outlet (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
20	<i>Item No 20: Rack Specification - 9U / Width 600 / Depth 600 (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
21	<i>Item No 21: Rack Specification - 42U Closed Rack / Width 8000 / Depth 1000 (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
22	<i>Item No 22: Outdoor Rack Specification - IP 55 Outdoor Pole Rack 9U X 550mm W X 500 mm D (In numbers)</i>	1			0.00	0.00	0.00	0.00	INR Zero Only
Total in Figures							0.00	0.00	INR Zero Only
Quoted Rate in Words	INR Zero Only								

SECTION- 5
TECHNICAL SPECIFICATIONS

ANNEXURES

Tender Document No:

SEDC/Nauni/NETWORK/2K22-154



NB: Final specifications uploaded after pre-bid meeting. Please visit our web-sites www.hpsedc.in & <https://hptenders.gov.in> for latest amendments or notices in reference to this tender.

*** The quoted product should not be end of life at the time of bid submission. The support shall be provided by the bidder/ OEM for next three years, an undertaking for the same shall be provided by the OEM.**

Technical compliance to be provided on OEMs letterhead with signatures, name, email, contact number of Authorized signatory.

ANNEXURE-I

SECTION – V

TECHNCIAL SPECIFICATIONS AND COMPLIANCE SHEETS ANNEXURES

The specification mentioned hereunder are bare minimum requirement. Bidders are encouraged to offer better specifications in this bid or subsequently during the period of tender/rate contract. Technical compliance to be provided on OEMs letterhead with signatures, name, email, contact number of Authorized signatory.

Item No 1: Router

(Qty. 1)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Flash Memory	Router should support minimum or equivalent 16 MB which should be sufficient to router operations
2.	Performance	It shall have routing performance of minimum 5 MPPS
3.	RAM	Router should support minimum 1 GB DRAM which should be sufficient to router operations
4.	Physical Interface:	<ul style="list-style-type: none"> •It shall have minimum 4 * 10/100/1000 Mbps Gigabit Ethernet port •It shall have minimum 4* 1000 Base X SFP ports •It shall have minimum 1 * USB Interface •It shall have minimum 4 HIC slots to support E1 or v.35 interface
5.	Switching & Security	<ul style="list-style-type: none"> •It shall Compatible with IEEE 802.1p, IEEE 802.1q, IEEE 802.1x •Router should support STP, RSTP •Router should support Keepalive, port mirror, broadcast/multicast storm limitation •Router should support AAA shall support enable, local, Radius and Tacacs+ •Router should support PAP, CHAP.

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6.	Enhanced Network Services	<ul style="list-style-type: none"> •Router should support Static route, directly connected route and default route •Router should support RIPv1/v2, OSPFv2, BGPv4, ISIS •Router should support PBR policy routing •Router should support Fast-Switch, Load-Balance •Router should support IPv6, DHCP Server/Client/Relay, DNS, DNS host, DNS Proxy. •Router should support TFTP Client/Server, FTP Client 	
7.	WAN protocol	Router should support PPP, Multilink-PPP, PPPoE (Client/Server)	
8.	Firewall	<ul style="list-style-type: none"> •Router should support ACL, NAT •Router should support prevention of SYN flood, UDP flood or ICMP flood •Router should support ARP attack prevention, ARP-Scan and DHCP snooping •Router should support prevention of attacks from all kinds of network packets such as Ping of Death, WinNuke, PingSweep, ARP attack. 	
9.	Virtual Private	<ul style="list-style-type: none"> •Router should support IKE IPsec VPN •Router should support L2TP, PPTP, GRE tunnel 	
10.	QOS Support	Router should support IGMP v1, v2 (Inter-Group Management Protocol Version 2) as per, Multicast Routing support like PIM-SM, PIM-DM etc.	
11.	MPLS	Router should support IP MPLS	
12.	IPv6 protocol	<ul style="list-style-type: none"> •Router should support IPv6 ND, IPv6 ACL •Router should support IPv6 transition: NAT-PT, IPv6 tunnel •Router should support IPv6 tunnel: manual tunnel, automatic tunnel, GRE tunnel, 6to4, ISATAP •Router should support IPv6 route: IPv6 static route, RIPng, OSPFv3, BGP4+ 	
13.	Redundancy	Router should support VRRP	
14.	Power Input	It loaded with Dual Power supply 230 V AC, 50 HZ.	
15.	Management	<ul style="list-style-type: none"> •Network Management: SNMP, SYSLOG, RMON, HTTP management •Local Management: CLI management and file system management •Support Telnet, SSH. 	
16.	Environmental	Router should support operating temperature 0 C ~+45 C	
17.	Warranty	Three years comprehensive onsite warranty	

Item No 2: Indoor Access Point

(Qty. 271)

Sr.No.	Specification	Compliance (Yes/No)
1.	The Access Point should be compliant with IEEE 802.3ab, IEEE 802.3u, IEEE 802.3az IEEE 802.11a/b/g/n/ac/ax Wave 2 wireless interface	

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2.	The Access Point support WPA/WPA2/WPA3 Personal/Enterprise, WEP 64/128-bit, SSID broadcast disable, MAC address access control, internal RADIUS server	
3.	The Access point should support MU-MIMO slices through congestion, reducing wait time for all users, Support Wi-Fi 6 delivers greater network efficiency and lower latency, with nearly four times the capacity of previous Wi-Fi standards	
4.	The Access Point should be compliant with IEEE 802.3af and 802.3at for providing PoE based power	
5.	The Access point should support Band Steering makes sure connected devices get the best available frequency band	
6.	Interface and antenna	
7.	Minimum 2 x dual-band internal antennas 3.2 dBi antenna for 2.4 Ghz & internal 4.3 dBi antenna for 5 Ghz	
8.	Support 2.4 - 2.483 GHz, 5.15 - 5.35 GHz, 5.47 - 5.85 GHz	
9.	Access Point should provide Maximum Output Power - 23 dBm in 2.4 GHz band & 26 dBm 5 GHz band:	
10.	Access Point should support Up to 1800 Mbps	
11.	Access point must have 1 x RJ45 console port for Debugging, 1 x 10/100/1000 Ethernet (PoE) LAN, factory reset, power input	
12.	The AP should support Software controller and Hardware controller of same OEM	
13.	The Access Point should have option for inbuilt IOS feature to manage group of Access point without any software	
14.	The Access point should support SNMP v1, v2c, v3	
15.	The Access point should have support for Other Features Fast Roaming Support with 802.11k, 802.11v, and 802.11r and Passpoint Hotspot 2.0 Support	
16.	WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WEP 64/128-bit encryption, SSID broadcast disable, MAC address access control, Network Access Protection (NAP), ARP spoofing prevention, WLAN partition	
17.	The Access point support Local/POP3/RADIUS/PassCode/LDAP authentication for captive portal	
18.	The Access point should have built-in internal RADIUS server allowing users to create their accounts within the device itself	
19.	Telnet, Secure Telnet (SSH), Web (HTTP), Secure Socket Layer (SSL), Traffic control, SNMP v1/v2c/v3 ,	
20.	The AP should have Maximum Power Consumption • 16 W	
21.	Temperature • Operating: 0 to 40°C (32 to 104°F) • Storage: -20 to 65°C (-4 to 149°F)	
22.	The AP should be supplied with Wall and ceiling mounting bracket	
23.	The AP should support Software controller and Hardware controller of same OEM	
24.	The Access Point should have option for inbuilt IOS feature to manage group of Access point without any software	
25.	The Software must be Free of cost	
26.	The Access Point can work multiple operation modes: Access Point, Wireless Distribution System (WDS) with Access Point, WDS/Bridge (No AP Broadcasting), and Wireless Client.	
27.	The Wireless AP and PoE switch should be from same OEM	
28.	Warranty : Three years comprehensive onsite warranty	

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Item No 3: Outdoor Access Point

(Qty. 48)

Sr.No.	Specification	Compliance (Yes/No)
1.	AP should support dual band (2.4 GHz and 5 GHz) with 802.11ac Wave 2.	
2.	AP should be IEEE 802.11ac and backward compatible with IEEE 802.11b, IEEE 802.11g, IEEE 802.11a and IEEE 802.11n.	
3.	AP should support Data Signal Rate Up to 300 Mbps on 2.4 GHz band and Up to 866 Mbps on 5 GHz band.	
4.	Supports IEEE 802.11 ac and b/g/n wireless data encryption with 64/128-bit WEP for security.	
5.	Ap should support enhanced security – WPA-PSK and WPA2-PSK.	
6.	AP should have Web-based configuration and management.	
7.	AP should have 2 X 10/100/1000 Mbps LAN ports with one port should support IEEE 802.3af POE Standard.	
8.	Should have IEEE 802.3az Energy-Efficient Ethernet (EEE).	
9.	AP can be configured in AP Mode, WDS Mode, WDS with AP, and Wireless Client Mode.	
10.	AP should support SNMP v1,v2,v3.	
11.	AP with Internal Antenna: 4 x internal dual-band antenna with min. 7 dBi gain for 2.4 GHz, and min. 6 dBi gain for 5 GHz.	
12.	AP Power Consumption should not be more than 12W.	
13.	Should have FCC, IC, UL, and C-Tick certifications.	
14.	AP can be managed through Software based controller, Telnet, Secure Telnet (SSH), Web (HTTP), and Secure Socket Layer (SSL).	
15.	AP should have Reset Button for reset the device to default setting.	
16.	Radio and Modulation Schemes should be DQPSK, DBPSK, DSSS, and CCK.	
17.	AP should have Embedded RADIUS Server.	
18.	AP should support to work in Stand-Alone Mode and in Managed Mode with a software-based Controller.	
19.	AP with IP68 water/dustproof standard.	
20.	Ap Should have 6KV Surge Protection; 4KV ESD Protection (contact), 6KV (air).	
21.	Operating Temperature: 0°C to +60°C.	
22.	Operation Humidity 10% to 90% non-condensing	
23.	AP should be EN50121-1 and EN50121-4 and EN60601-1-2 certified.	
24.	The Access point must be pole and wall mountable in the outdoor environment.	
25.	AP should be supplied with the all necessary hardware accessories like Mounting Plate / bracket, Installation Guide, Grounding wire, etc. and necessary software image file to fulfill all above mention feature set from day 1.	
26.	Warranty : Three years comprehensive onsite warranty	

Item No 4: Wireless Controller

(Qty. 1)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Controller should have Centralized Wireless AP management for above	

RFP for Setting up of Wi-Fi network in University campus at Nauni (Solan)

	mention access point.	
2.	Controller should be capable of managing up to 1000 Access Points (APs) without licensing charges.	
3.	Should support Wireless LAN Management Features like AP grouping, Multi-tenancy, Visualized topology, NAT pass-through, AP discovery (layer 2 and layer 3), and Report system.	
4.	Should have Diverse authentication options like Captive Portal, RADIUS Server, POP3, LDAP, Local and AD.	
5.	Should have Built-in support for voucher-based authentication for Guest user / Hotspot.	
6.	Should support Rate limiting and bandwidth control for guest and hotspot portal.	
7.	Controller should support Auto Channel, Output Power Control, Self-healing around failed Aps in RF Management and Control.	
8.	Should support 8 Multiple SSIDs per Radio.	
9.	Should support Band steering, L2 roaming, Bandwidth optimization and Airtime fairness	
10.	Controller should have Web-based user interface (HTTPS) for easy management.	
11.	Should support Scheduling in Firmware update and Configuration update.	
12.	Warranty : Three years comprehensive onsite warranty	

Item No 5: Core Switch

(Qty. 2)

Sr.No.	Specification	Compliance (Yes/No)
1.	The Core Switch should be high-performance switches that feature high port density, routing, and ultra-low latency, designed to be deployed as TOR switch.	
2.	Non-Blocking architecture. Switch should be EMI Certificates FCC, CE and Safety Certifications cUL/UL, CB.	
3.	Switch shall be IPv6 compliant and it should work on IPv6 Platform without any additional hardware/ software.	
4.	OEM End-of-sale declaration shall not have been released for the quoted model at the time of the bid submission.	
5.	All the specified features/parameters/certifications must be available on the Technical Bid opening date. Features /parameters /certifications proposed to be available in near future / on roadmap shall not be considered.	
6.	Switch should support VXLAN, ONIE / OpenFlow v1.3, Data Center Bridging Exchange (DCBX)	
7.	Should support at least 48-port 1G/10G SFP+, 6-port 40G/100G QSFP28 Ports.	
8.	The switch should have min 1200G stacking bandwidth with nine devices functioning together as a single unit.	
9.	All Switches and Fiber Modules should be from Same OEM	
10.	The Switch have 2.16Tbps Switching Capacity, and forwarding rate 1607.4Mpps, for Higher switching functionality.	
11.	MAC Address Table - Min 250K, MTBF - 90K hours Min	
12.	Min 4K static VLAN groups and Min 4K VIDs	
13.	Switch should support STP/MSTP/RSTP and ERPS for support less than 50 Millisecond convergence (G.8032 v1/v2) Protocol support	
14.	802.1AX Link Aggregation, Multi-Chassis Link Aggregation Group (MLAG)	

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15.	At least 8 nos of 802.1p Priority Queues per port, IEEE 802.1Qbb Priority-based Flow Control (PFC)	
16.	IGMP & MLD Snooping, Multicast Table Size: Up to 16K, PIM-SM IPv4/IPv6, PIM-DM, MSDP, PIM-SMD, PIM-SSM, DVMRP v3	
17.	Port Mirroring, Flow Mirroring, RSPAN mirroring	
18.	The switch shall have hardware based forwarding for IPv4 & IPv6.	
19.	Following protocols shall be supported with IPV4: Static routing, PBR, RIPv2, OSPFv2, BGPv4, PIM, VRRP from day one, MPLS/BGP L3 VPN, MP-BGP, VRF aware application, Graceful Restart (GR) Helper	
20.	IPV6: PBR, Static routing, OSPFv3, Bidirectional Forwarding Detection (BFD), BGP/MPLS VPN, BGP v4/v4+, IS-ISv6, IP Directed Broadcast.	
21.	The switch shall have Dual stack mode to run both IPv4 & IPv6, IPv4/IPv6 Routing Table - Min 16K, IPv4/IPv6 Forwarding Table - Min 120K	
22.	Shall support VRRP for IPV4 and IPV6.	
23.	MAC and 802.1 X based Login must be available, Supports 802.1X NAP	
24.	MAC Address based Lockdown and Limited Learning,	
25.	L2/L3/L4 IP based, Source port, destination port, MAC based, Time based	
26.	AAA using RADIUS must be available, Identity-driven Policy (VLAN/ACL/QoS) Assignment, Guest VLAN	
27.	Secure Web based management (On https) through NMS or Full featured CLI, TELNET Access.	
28.	SSH based management (SSH v2). IEEE 802.3ah Ethernet link OAM, IEEE 802.1ag, ITU-T Y.1731	
29.	Serial console port, Alarm Port, USB Port, Management Ethernet port - Dedicated OOB port	
30.	The switch shall support multiple administrator accounts. Each administrator account shall be configurable with the desired level of management privileges.	
31.	The switch should support SNMP V2c and V3, and SDN with Open flow and ONIE for an open network support and RMONv1 and RMONv2 Support	
32.	Syslog shall be supported with multiple syslog destinations.	
33.	Shall support Netflow/IPFIX/sflow for flow exports.	
34.	Time synchronization using Network time protocol must be available.	
35.	The switch shall have feature of backing up the configuration & restoring a backed- up configuration. Multiple Configuration files must be supported.	
36.	Config/image upload and download from TFTP/FTP server shall be available.	
37.	Switch should be supplied with the all necessary hardware accessories like PSU, FAN, Power cord (full load front-to-back AC PSUs - 2 Min, and 4 front-to back fan modules), Stacking Cable (QSFP28 to QSFP28), Rack-mount bracket, Installation Guide, etc. and necessary software image file to fulfill all above mention feature set from day 1.	
38.	Power Supply & FAN - Switch should support Internal Hot swappable PSU and Field replicable FAN module.	
39.	Safety certification - The switch shall conform to IEC-60950/CSA-60950/EN-60950/UL-60950 standard for safety requirements of information technology equipment.	
40.	Environmental conditions- The offered equipment must be able to operate in the following environmental conditions	
41.	Operating temperature: 0°C to 45 °C and Relative Humidity: 10% to 95% Non-condensing	
42.	Warranty : Three years comprehensive onsite warranty	

Item No 6: Distribution Switch**(Qty. 10)**

Sr.No.	Specifications	Compliance (Yes/No)
1.	Proposed Switch should have 20 10/100/1000BASE-T ports 4 Combo 10/100/1000BASE-T/SFP ports and 4 SFP+ ports	
2.	Switch should Support Internal/External Redundant Power Supply.	
3.	Switch shall have SD Card slot/USB/External flash for easy file store & restoration like firmware, configuration file, boot image, syslog etc.	
4.	Switching Capacity should be 128 Gbps & Packet Forwarding rate should be 95 Mpps.	
5.	The Switch shall support Min. 48K Mac address	
6.	Switch should support Physical Stacking up to 9 units per stack. Stacking bandwidth should be up to 80G and up to 32 devices per virtual stack.	
7.	Switch should support ARP, Proxy ARP and Gratuitous ARP.	
8.	The LAN switch shall have IEEE 802.1Q VLAN encapsulation and should support 4k Vlans.	
9.	It shall have support for Detection of Unidirectional links and to disable them to avoid problems such as spanning tree loops	
10.	It shall support 802.1v Protocol-based VLAN	
11.	Should support MAC based Vlans	
12.	Should support GVRP or equivalent, Private Vlan or equivalent, Subnet Vlan or equivalent, Voice Vlan and QinQ (port based qinq and selective qinq).	
13.	Multicast VLAN to allow multiple VLANs to receive the same multicast traffic	
14.	Should have 802.1D STP, 802.1w RSTP and 802.1s MSTP Spanning Tree Protocol and ERPS as per standard ITU-T G.8032 to provide protection for Ethernet traffic in ring topology.	
15.	The Switch should have 802.1AX Link Aggregation Up to 30 groups per device.	
16.	Port Mirroring One to one/Many to One, Flow based mirroring & VLAN Mirroring	
17.	Switch shall support ITU-T G.8032 Ethernet Ring Protection Switching to provide protection for Ethernet traffic in a ring topology, while ensuring that no loops are within the ring at the Ethernet layer	
18.	The Switch shall have the intelligence to detect the loop occurring from the unmanaged network segment	
19.	Switch should support Static routing for IPv4 and IPv6, RIP for IPv4 and RIPng for IPv6, VRRP v2 & V3, OSPF, OSPF v3, BGP4, BGP4+ IS-IS v4/V6 and MPLS from day 1	
20.	Switch should support PIM-SM, PIM-DM, PIM-SDM, PIM-SMv6, DVMRP v3 and MSDP	
21.	IPv6 Tunnelling: Tunnel types should be supported are Static, 6to4, ISATAP and GRE.	
22.	Should support URPF, ECMP, Bidirectional Forwarding Detection, policy based routing, Route Redistribution support	
23.	Switch should support 802.1p priority queuing with 8 queues per port.	
24.	Queue Handling mode: WRR & Strict Mode, Strict + WRR and Weighted Deficit Round Robin (WDRR)	
25.	Granular Rate Limiting functions on per port & flow based to guarantee bandwidth in increments shall be as low as 8 Kilobits per Second.	
26.	Class of service shall be based on Switch port, DSCP, Vlan ID, TCP/UDP port, Protocol type, 802.1p queues, IPv4/v6 address, IPv6 flow label &	

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	User defined packet content	
27.	Broadcast and Multicast traffic/storm control	
28.	Weighted Random Early Detection (WRED) for congestion control	
29.	Switch shall support ITU-T Y.1731, 802.3ah Ethernet Link OAM, 802.1ag Connectivity Fault Management (CFM), Optical Transceiver Digital Diagnostic Monitoring (DDM) & Dying gasp	
30.	IEEE 802.1X Port Based Access control and Host based Access control and Guest Vlan	
31.	It shall support RADIUS/TACACS+ authentication to enable centralized control of the switch and restrict unauthorized users from altering the configuration.	
32.	It shall have IP-MAC-Port binding and Safeguard Engine	
33.	Switch should be able to authenticate and access control based on MAC and web (Http or Https)	
34.	BPDU Attack Protection, ARP protection, IP Source Guard, Dynamic ARP Inspection and DOS Attack Prevention	
35.	It shall support for SSHv2, SNMPv3 to provide network security by encrypting administrator traffic	
36.	Switch shall support 802.1Qbb Priority-based Flow Control (PFC).	
37.	Able to manage trough Web-GUI, Fully functional CLI interface and Telnet.	
38.	Should support sFlow for monitoring traffic in data networks, SNMP v1, v2c, v3 and SNMP Traps and RMON.	
39.	Switch should be EMI Certificates FCC, CE and Safety Certifications cUL/UL, CB.	
40.	Switch should be supplied with the all necessary hardware accessories like Power cord, Rack-mount bracket, Installation Guide, etc. and necessary software image file to fulfill all above mention feature set from day 1.	
41.	Warranty : Three years comprehensive onsite warranty	

Item No 7: 24 Port POE Switch

(Qty. 49)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Switch Should Support 24 10/100/1000BASE-T PoE, 4 SFP ports and RJ-45 console port. All Gigabit Ethernet ports support IEC 61000-4-5 surge protection (6KV)	
2.	switch should support Operating Temperature -5 to 50 °C (23 to 122 °F)	
3.	Switch Should Support Min. 56 Gbps Switching Capacity and Maximum 64 Byte Packet Forwarding Rate is 41.7 MPPS, 16K MAC address table.	
4.	The Switch shall have the intelligence to detect the loop occurring from the unmanaged network segment. Dying Gasp for quick trouble shooting during power failures or system shut downs	
5.	Switch Should Support IEEE 802.3af & at compliance (for PoE ports) and 193W Power Budget.	
6.	Switch Should Support IGMP Snooping v1, v2 and MLD snooping v1/v2	
7.	Switch shall support IEEE 802.1AB Link Layer Discovery Protocol (LLDP) & LLDP-MED.	
8.	Switch Should Support IEEE 802.3az Energy Efficient Ethernet (EEE) Power saving Technology, Power Saving by Link Status, Time-based PoE, System hibernation, Port shut off, Cable length detection Etc.	
9.	Switch Should Support 4K VLAN ID's, Min 256 static VLAN , Multicast VLAN and Auto Voice & Video VLAN	

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10.	Switch Should Support Port Mirroring One to one/Many to One,	
11.	Switch should support Quality of Service (QoS), 802.1p, Strict, Weighted Round Robin (WRR), Bandwidth Control.	
12.	Switch Should Support IP interfaces, Static routing for inter-VLAN Communication	
13.	Switch should support Access Control List (ACL), Port Base, MAC Base, IP Based, L2 & L3 ACL (IPv4 and IPv6) ITU-T G.8032 ERPS sub-50 ms protection and recovery	
14.	Switch Should Support Security Features like Broadcast/Multicast/Unicast Storm Control, Traffic segmentation, TLS, DoS attack prevention, 802.1X Port-based Access Control , Port Security, ARP Spoofing Prevention, DHCP Server Screening, IP-MAC-Port Binding, ARP Inspection, DHCP Snooping.	
15.	Switch Should Support 802.1X Authentication local/RADIUS database (IPv4 & IPv6), port-based access control, EAP, OTP, TLS, TTLS, PEAP and Support MD5 authentication	
16.	Switch Should Support features Cable diagnostics, IPv4 & IPv6 Inspection, SSH v2 feature, 802.3x Flow Control and HOL Blocking Prevention	
17.	Switch Should Support Management thru Web-based and CLI.	
18.	Switch Should Support SNMP v1/v2c/v3, SNTTP, ICMP v6, IPv4/v6 Dual Stack, Dual image, Dual configuration	
19.	Switch should have EMI CERTIFICATE as per EN/FCC/IC/CE.	
20.	Switch should have SAFETY CERTIFICATE as per UL/ IEC/EN 60950	
21.	Switch should be supplied with the all necessary components like Power supply, Power cord, Console Cable, Rack-mount kit, Installation Guide, etc. and necessary software image file to fulfil all above mention feature set from day 1.	
22.	Warranty : Three years comprehensive onsite warranty	

Item No 8: 8 Port POE Switch

(Qty. 17)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Switch Should Support 8 10/100/1000BASE-T PoE , 2 SFP ports and RJ-45 console port	
2.	switch should support Operating Temperature -5 to 50 °C (23 to 122 °F)	
3.	Switch Should Support Min. 20 Gbps Switching Capacity and Maximum 64 Byte Packet Forwarding Rate is 14.88 MPPS, 16K MAC address table.	
4.	The Switch shall have the intelligence to detect the loop occurring from the unmanaged network segment. Dying Gasp for quick trouble shooting during power failures or system shut downs	
5.	Switch Should Support IEEE 802.3af & at compliance (for PoE ports) and 78W Power Budget. Surge protection on all Gigabit Ethernet ports.	
6.	Switch Should Support IGMP Snooping v1, v2 and MLD snooping v1/v2	
7.	Switch shall support IEEE 802.1AB Link Layer Discovery Protocol (LLDP) & LLDP-MED.	
8.	Switch Should Support IEEE 802.3az Energy Efficient Ethernet (EEE) Power saving Technology, Power Saving by Link Status, Time-based PoE, System hibernation, Port shut off, Cable length detection Etc.	
9.	Switch Should Support 4K VLAN ID's, Min 256 static VLAN , Multicast VLAN and Auto Voice & Video VLAN	
10.	Switch Should Support Port Mirroring One to one/Many to One,	

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11.	Switch should support Quality of Service (QoS), 802.1p, Strict, Weighted Round Robin (WRR), Bandwidth Control.	
12.	Switch Should Support Min 4 IP interfaces, Static routing for inter-VLAN Communication	
13.	Switch should support Access Control List (ACL), Port Base, MAC Base, IP Based, L2 & L3 ACL (IPv4 and IPv6) ITU-T G.8032 ERPS sub-50 ms protection and recovery	
14.	Switch Should Support Security Features like Broadcast/Multicast/Unicast Storm Control, Traffic segmentation, TLS, DoS attack prevention, 802.1X Port-based Access Control , Port Security, ARP Spoofing Prevention, DHCP Server Screening, IP-MAC-Port Binding, ARP Inspection, DHCP Snooping.	
15.	Switch Should Support 802.1X Authentication local/RADIUS database (IPv4 & IPv6), port-based access control, EAP, OTP, TLS, TTLS, PEAP and Support MD5 authentication	
16.	Switch Should Support features Cable diagnostics, IPv4 & IPv6 Inspection, SSH v2 feature, 802.3x Flow Control and HOL Blocking Prevention	
17.	Switch Should Support Management thru Web-based and CLI.	
18.	Switch Should Support SNMP v1/v2c/v3, SNTP, ICMP v6, IPv4/v6 Dual Stack, Dual image, Dual configuration	
19.	Switch should have EMI CERTIFICATE as per EN/FCC/IC/CE.	
20.	Switch should have SAFETY CERTIFICATE as per UL/ IEC/EN 60950	
21.	Switch should be supplied with the all necessary components like Power supply, Power cord, Console Cable, Rack-mount kit, Installation Guide, etc. and necessary software image file to fulfil all above mention feature set from day 1.	
22.	Warranty : Three years comprehensive onsite warranty	

Item No 9 : 1G Fiber Module : IEEE802.3z 1000BASE-LX (Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Description: 1GBASE-LR SFP Transceiver	
2.	Fiber Module should be Hot Pluggable, MSA Compliant and RoHS Compliant	
3.	Wavelength: 1310 nm	
4.	Fiber Module should support 10KM Distance	
5.	Certification - CE, FCC, UL, LVD, TUV, VCCI. (Should Enclosed with bid)	
6.	Warranty : Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 9 will be as per actual consumption**

Item No 10: 10G Fiber Module: IEEE-802.3ae 10GBASE-LR (Qty. 10)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Description: 10GBASE-LR SFP+ Transceiver	
2.	Fiber Module should be Hot Pluggable, MSA Compliant and RoHS Compliant	
3.	Wavelength: 1310 nm	
4.	Fiber Module should support 10KM Distance	
5.	Certification - CE, FCC, UL, LVD, TUV, VCCI. (Should Enclosed with bid)	
6.	Warranty : Three years comprehensive onsite warranty	

Item No 11: Network Management System (Switch Specification)**(Qty. 1)**

Sr.No.	Specifications	Compliance (Yes/No)
1.	NMS should Compliance to IEC 62443-4-1 or similar cyber security standards, Support server client architecture and Support multi-tenant architecture, NMS Server will support 5000 Devices from day1 and can upgraded for 5000+ Devices if required. Supports both for Windows and Linux OS platform	
2.	Support High Availability (HA), this can be used to reduce the load on one server, while increasing the reliability of the system by being able to survive failures. NMS can be installed in a HA deployment type, providing fault tolerance and allowing individual nodes to be taken offline without impacting the network.	
3.	Support probe design to collect data from remote site without VPN or behind NAT	
4.	Compliance to FCAPS or similar network management framework and Should support sFlow based traffic monitoring.	
5.	Should support role-based user management with Radius authentication, Should support traditional network topology and VLAN based topology and Should support device panel simulation and visualization of device rack	
6.	Should support IPv4 and IPv6 based devices discovery and built-in MIB Browser and MIB Complier	
7.	Support SNMP v1, v2c, v3 scan, support smart scan by neighbourhood and Support discover across LAN by probe	
8.	Support periodically discovery with specific time period and Support LLDP, FDB based link discovery	
9.	Support overall system and product summary and Support customized dashboard, NMS allows for the creation of customized dashboards that contain a variety of different metrics. Separate dashboards between different users, the users must be in different workspaces. NMS allow to show device details overview gives a more complete dashboard view of a device. The default overview tab displays basic information that allows network administrators to get the information they need as quickly as possible.	
10.	Support auto-topology generation, support customized topology generation, Support devices status display, Support link status display, Support different structure of topology (tree type, start type), Support multi-layer topology for following views, Support customized background image overlay for following views	
11.	Support multiple polling methods - Ping and SNMP and Support customized polling time for each devices or by group	
12.	Support customized criteria or threshold to trigger the event based on following rules - Value Match, Keyword Match, Keyword Combination Match and Support customized escalation rules and Support email notification to defined users	
13.	NMS should support periodically scheduled config backup for single or multiple devices	
14.	NMS should support config restore by system-stored or user by user-uploaded file for single or multiple devices	
15.	The User / Workspace view shows all of the user accounts and all of the available work spaces.	
16.	Users on the NMS server can be assigned to a specific workspace, which can be configured to limit the amount of or type of devices that are available to those users.	
17.	The report feature is used to generate reports that will help you monitor system and network health as well as troubleshoot problems. Reports can be generated to run on an immediate one-time use or a scheduled basis, and can be customized by certain user-defined	

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	criteria.	
18.	Generated reports can be formatted into graphs or tables and be downloaded for future use as PDFs.	
19.	NMS should provide reports monitoring for various statistical information by device and ports.	
20.	The System Logs view shows a list of all events that have taken place on the NMS server. Events may be filtered by entering a keyword into the search box.	
21.	Wired Traffic Reports page is used to issue reports monitoring wired traffic by port and by device.	
22.	Report should displays the following minimum information: Number, Recurrent status, Name, Status, Time of Creation, Number of Targeted Devices, Creator, Next Execution Time.	
23.	Support support to NMS administrator to manage the SNMP traps on the system. New traps can be added, traps can be deleted, and a description can be given to the traps, so that they can be more easily identified.	
24.	NMS should support Configuration Comparison with two different configuration files and highlight the differences.	
25.	You can select files from either all devices or from a specific device and following actions: Reload Configuration File, Save As, Restore to Device Between the two panels, you are able to toggle locked scrolling and copy highlighted chunks of text between the two configuration files.	
26.	Firmware Management is used to deploy firmware upgrades to multiple devices at the same time. Firmware Management view is used to manage the deployment and tracking of firmware to devices on the network. File Management is used to manage uploaded firmware and configuration files. The File management page allows you to manage uploaded firmware and configuration files.	
27.	Configuration Management is used to backup and restore configurations for a single or multiple devices at the same time. Configuration Management view is used to backup and restore configurations for a single or multiple devices at the same time.	
28.	NMS should support Task Management for use to view and manage currently running as well as historical task.	
29.	Batch Configuration contains a number of different pre-defined templates that can be used to configure multiple devices at the same time. It is also possible to use the built-in Script Template editor to create customized templates that can be saved for later use. NMS should support script dispatch with variables (such as IP, system name, etc.) defined by each device.	
30.	NMS should support various views that give network administrators a visual overview of different aspects of their network. The Device View list all of the discovered devices by category. Topology view shows how devices are interconnected with the use of topology maps. Rack View can be used to simulate physical racks, and network stack layouts. Event View keeps a log of all received events by discovered devices in chronological order. Monitor Logs displays captured Trap and Syslog messages from devices on the network. Support panel and LED status of switches and Support panel view with stacking switches	
31.	Devices that have support for local or remote logging will have a logs tab, which lists all of the events for that device. NMS supports both the Trap and Syslog standards and can receive either if a remote networking device is configured properly. The Logs view can be filtered by time period using the drop down menu. The events are listed in chronological order, starting with the name of the event, the SNMP	

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	version that was used	
32.	NMS support configuration of Every class of device can create its own default sensors that can be accessed from the device detail sensors tab. For example, Switches will have sensors for different types of metrics that relate to wireless clients, wireless traffic, or ping time. While routers and switches will have sensors that show metrics such as CPU utilization, wire speeds, and wired error packets.	
33.	The Sensor Settings view shows a list of available sensors based on the type of data collected by the sensor. The sensors configured here will show up as a widget on the dashboard of a device that the sensor is assigned to. Certain sensors will not be applicable to specific types of devices (e.g. Wireless sensors for switches or other devices that have no wireless capability). To create a new sensor for a single device or multiple devices, select the sensor type based on the desired data to be collected, and click on the New Sensor button.	
34.	Support inventory and devices export and Support devices grouping by label, a device can belong to multiple label, Inventory list shows hardware devices that are on the network and their relevant information such as IP address, Serial Numbers, and Firmware	
35.	The Notification Center shows the notification rules that have been configured for devices in NMS. The name of the notification rule is entered, and then the sensor type, device and alert conditions are selected. These are the conditions that will trigger the alert.	
36.	Warranty : Three years comprehensive onsite warranty	

Item No 12: Optical fiber cable

(Qty. 1*)

Sr.No	Specifications	Compliance (Yes/No)
1.	The Fiber should be 6 & 12 core OS2 Fiber Central -loose tube filled with Thixotropic jelly	
2.	The Fiber should follow Standards: ISO 11801, IEC 60793-1/60794-1-2/60794-3-10 and ITU-T-REC G.652D	
3.	The Fiber should be with High quality Electro Chromium Coated Corrugated Steel tape (ECCS) and LSZH- Sheath	
4.	The Fiber Operating Temperature should be - 20 deg C to +60 deg C and Storage Temperature should be - 20 deg C to +60 deg C	
5.	The Fiber Max Attenuation ± 0.36 (db / km) @ Operational Wavelength 1310 nm and, ± 0.22 (db / km) @ Operational Wavelength 1550 nm .	
6.	The Fiber - type should be 9/125 / G.652D & Refractive Index should be 1.4674/1.4679	
7.	The value for Mode-filed/Cladding Diameter (um) 9.2 ± 0.4 and 125 ± 0.7	
8.	The Dispersion value ≤ 3.5 ≤ 18 (ps/(nm-km) and PMD value ≤ 0.2 (ps/km) and Cable Cut-off wavelength ≤ 1260 (nm)	
9.	Warranty : Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 12 will be as per actual consumption**

Item No 13: Pigtail LC LSZH SM (OS2) - 1 Mtr

(Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/No)
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		No)
1.	Corning single-mode G652D,G657A,G657B	
2.	Cable Type:-0.9mm	
3.	Apex Offset <50um	
4.	Fiber Height +(-) 100nm	
5.	End-face Radius of curvature 7mm < R < 25mm	
6.	Repeatability : <(=) 0.2dB 1,000 times mating cycles	
7.	Working Temperature:- -40 oC ~ + 85 o C	
8.	Storage Temperature :- -40 o C ~ + 85 o C	
9.	Warranty : Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 13 will be as per actual consumption**

Item No 14: 12 Port LIU Technical Specification

(Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Should be Rack Mount for 6, 12 & 24 Port and should be loaded.	
2.	Front-mounted cable saddles for jumper management	
3.	Can manage both splices and terminations	
4.	Preassembled shelves in multiple configurations	
5.	Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers	
6.	2 fiber spools built-in for 900µm tight buffered fiber storing	
7.	Capable of storing up to 3 meters of 900µm tight buffered fiber per adapter	
8.	Removable front and rear covers for better access to interior of LIU	
9.	Should be Single mode LC Type fully loaded.	
10.	Accessory kit consists of cable ties, mounting ear screws, and spiral wrap tube	
11.	Warranty : Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 14 will be as per actual consumption**

Item No 15: Optical Fiber Patch Cord SM LC to LC Fiber LSZH Duplex Patch Cord (OS2)

(Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Adopts high precision ceramic ferrule with good concentricity	
2.	Fiber corning single mode G652D,G657A,G657B	
3.	Cable Type 0.9mm	
4.	Mechanical specification Apex Offset :-< 50 um	
5.	Mechanical specification Fiber Height +(-) 100 nm	
6.	End-face radius of Curvature 7mm < R <25mm	
7.	Repeatability <(-) 0.2 db	
8.	Working Temperature :- -4 o c ~ +85 o C	
9.	Storage Temperature:- 40 o C ~ + 85 o C	
10.	Length -- 2Mtr	
11.	Type -- LC-LC Duplex	
12.	Warranty : Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 15 will be as per actual consumption**

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Item No 16: Unshielded Twisted Pair Category 6 Cable

(Qty. 1*)

Sr.No	Specification	Compliance (Yes/No)
1.	Features Category 6 Unshielded Twisted Pair 4 pair should be complied as per ETL verification program for compliance with ANSI/TIA-568.2-D standard and ISO 11801 Class E standards at swept frequencies up to 250MHz	
Mechanical Characteristics		
2.	Construction: 4 twisted pairs separated by internal X shaped, full separator.	
3.	Conductor dia 23 AWG	
4.	Insulation POLYETHYLENE	
5.	Outer sheath LSZH GREY- Single sheath	
6.	RIP CORD YES	
7.	Sequential meter marking YES	
8.	Temperature Rating "-20° to +70°C	
9.	Filler Required YES	
10.	Packing 305 Mtrs.	
Low Frequency Electrical Parametre		
11.	CONDUCTOR RESISTANCE (DC) 93.8 OHMS/1000 MTR @20 Degree C. MAX.	
12.	RESISTANCE UNBALANCE 5%MAX	
13.	MUTUAL CAPACITANCE 5.6 nF/100 mtrs Max.	
14.	CAPACITANCE UNBALANCE PAIR/GROUND 330PF/100M MAX	
15.	Propagation Delay Skew 536 nS/100M	
16.	Nominal Velocity of Propagation 69%	
17.	IMPEDANCE 100±15%OHMS	
18.	Worst Case cable skew 45ns/100m	
19.	PoE compliance: Meets IEEE 802.3af and IEEE 802.3at for PoE applications	
20.	Warranty Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 16 will be as per actual consumption**

Item No 17: Cat 6 UTP Loaded Patch Panel - 24 port

(Qty. 1*)

Sr.No.	Specification	Compliance (Yes/ No)
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1.	Features	<p>Patch Panel made of powder coated steel, in 24 port configurations Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit. Have port identification numbers on the front of the panel. Should have self-adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel IDC: Suitable for 22-26 AWG stranded and solid wire compatible with both 110 & Krone punch down tools Improved cable management with optional cable management bar Category 6 Unshielded Twisted Pair 4 pair should be complied as per ETL verification program for compliance with ANSI/TIA-568.2-D standard</p>	
2.	Mechanical Characteristics	Plastic Housing: PBT+Glass Fiber, UL94V-0 rated	
3.	Jack Connector	<p>Operating Life: Minimum 750 insertion cycles Material: Phosher bronze with nickel plated Contact Plating: 50µ" Gold plated on plug contact area Contact Force: 20N max</p>	
4.	IDC Connector	<p>Plastic Housing: Polycarbonate, UL94V-2 rated or equivalent IDC Contact Plating: Phosphor bronze with tin plated Wire Accommodation: 22-26 AWG solid Voltage Rating: 125V AC RMS Contact resistance: 20Milliohms Insulation resistance: 100 MegaOhms @ 500V DC</p>	

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5.	Warranty	Three years comprehensive onsite warranty	
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***Note: The actual quantity of Item No 17 will be as per actual consumption**

Item No 18: Cat 6 UTP Patch cord

(Qty. 1*)

Sr.No.	Specification	Compliance (Yes/ No)
1.	Features	Category 6 Equipment cords – 1/2/3/5 Mtr The work area equipment cords shall, at a minimum comply with proposed ANSI/TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair Category 6 Cabling. Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.
2.	Mechanical – Cable	Conductor size: 24 -26 AWG stranded bare copper Jacket: Low Smoke
3.	Mechanical Characteristics – Plug	Operating life: Minimum 750 insertion cycles Contact blade: Copper Alloy Contact plating: 03Mμ” Gold
4.	Electrical Characteristics – Plug	Dielectric withstanding Voltage: 1000VDC or 700 VAC Insulation resistance: >500 MegaOhms @ 1000V DC/min Operating temperature: - 10oC to 60oC
5.	RJ-45 Plug and Boot Material	Clear Polycarbonate for RJ-45 And Clear PVC for Boot
6.	RJ-45 standards	ISO/IEC 60603-7-4 and FCC 47 part 68
7.	Factory molded Boot	Yes
8.		Category 6 Unshielded Twisted Pair 4 pair should be complied as per ETL

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		verification program for compliance with ANSI/TIA-568.2-D standard	
9.	Warranty	Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 18 will be as per actual consumption**

Item No 19: Information Outlet

(Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/ No)
1.	Single Port	Write on labels in transparent plastic window – supplied with plate
		Face Plate with shutter
		Should be able to support variety of jacks – UTP, STP etc.
		Category 6 Unshielded Twisted Pair 4 pair should be complied as per ETL verification program for compliance with ANSI/TIA-568.2-D standard
		All information outlets for 22-26 AWG copper cable shall:
		Use insulation displacement connectors (IDC)
		Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limits.
2.	Insertion force:	20N max
		Jack Specification:
3.	Plastic Housing:	Polycarbonate, UL94V-2 rated or equivalent
4.	Operating Life:	Minimum 750 insertion cycles
5.	Contact Material:	Phosphor Bronze with nickel plated
		Contact Plating: 50 microns gold on plug contact area
6.	IDC :	Housing PC , UL 94 V-2, 568A/B configuration
		Operating Life: Minimum 200 Re-terminations
7.	IDC Contact Plating:	Phosphor bronze with tin plated
8.	Operation Temp	: -10 C to 60 C
9.	Warranty	Three years comprehensive onsite warranty

***Note: The actual quantity of Item No 19 will be as per actual consumption**

Item No 20: Rack Specification - 9U / Width 600 / Depth 600

(Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/ No)
1.	Conforms to DIN 41494 OR equivalent ISO Standards	

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2.	Adjustable 19” equipment mounting verticals provide better mounting flexibility and maximizes the usable mounting space	
3.	Depth adjustable mounting slots	
4.	Precision engineering capabilities and best efficient software configuration product technology provide the best product quality and fastest delivery in the industry	
5.	Top and bottom Panel with ventilation and cable entry facility	
6.	Provision to mount cooling fans on the top panel	
7.	Powder coated finish with pretreatment process meeting all industry standards	
8.	Grounding and Bonding Options. 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
9.	Front Door : Lockable Toughened Glass Door	
10.	Mounting Angle : 19” Mounting angles made of formed steel	
11.	Top and Bottom Cover : Welded to Frame, Vented and Field Cable entry exit cut outs	
12.	Standard Accessories: Power Distribution Units, 1U Horizontal Cable Manager, FAN and one Hardware Packet	
13.	Warranty: Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 20 will be as per actual consumption**

Item No 21: Rack Specification - 42U Closed Rack / Width 8000 / Depth 1000 (Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Adjustable 19” equipment mounting verticals provide the better mounting flexibility maximizing the usable mounting space	
2.	Depth adjustable mounting slots	
3.	Precision engineering capabilities and best efficient software configuration product technology provides the best product quality and fastest delivery in the industry	
4.	Top and bottom Panel with ventilation and cable entry facility	
5.	Provision to mount the cooling fans on the top panel	
6.	Powder coated finish with pretreatment process meeting all industry standards	
7.	Grounding and Bonding Options	
8.	100% assured compatibility with all equipment conforming to DIN 41494. General industrial standard for equipment	
9.	Front Door : Lockable Toughened Glass Door	
10.	Equipment Mounting : DIN Standard 10mm Sq. Slots / Direct M6 Tap	
11.	Mounting Angle : 19” Mounting angles made of formed steel	
12.	Top and Bottom Cover : Welded to Frame, Vented and Field Cable entry exit cut outs	
13.	Mounting Option : Castor wheels (Front 2 wheels with Break and rear without break) Or Levelers Or Base plinth	
14.	Accessories: Doors & Side Panels, Power Distribution Units, Cable Manager, 4 * Fans and Fan Modules, Jacking Feet, 5 * Mounting Hardware, Vertical Power strip with 8 nos of 5/15A sockets (high end).	

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15.	Warranty: Three years comprehensive onsite warranty	
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***Note: The actual quantity of Item No 21 will be as per actual consumption**

Item No 22: Outdoor Rack Specification - IP 55 Outdoor Pole Rack 9U X 550mm W X 500 mm D (Qty. 1*)

Sr.No.	Specifications	Compliance (Yes/No)
1.	Depth adjustable mounting slots for verticals provide the better mounting flexibility maximizing the usable mounting space	
2.	Top Panel with ventilation and cable entry from the Bottom	
3.	Cooling fans mounted on Front Door with Top cover for Rain Water & Dust resistance.	
4.	Powder coated finish with pre-treatment process meeting all industry standards	
5.	Pole mounting Provision on the Rear Side	
6.	100% assured compatibility with all equipment conforming to DIN 41494. General industrial standard for equipment	
7.	Front Door : Lockable Steel Door	
8.	Construction of Material- 1.2/1.5mm Thick CRCA sheet	
9.	A very compact design, welded structure with front accessible	
10.	The side panels are integrated type & welded with canopy & bottom cover	
11.	Rigid frame that can be fixed to the pole	
12.	Front Door with Filter, Louver & Lock	
13.	90CFM, 230V AC Fan - 2 Nos, front door	
14.	Self-adhesive thermal foam from inside	
15.	Door Hinges - 2 Nos	
16.	Cable Glands at bottom side for cable entry	
17.	Pole Mounting Brackets at rear side- 2 Nos	
18.	Hood For Air Inlet at front side	
19.	Powder Coated Surface	
20.	3 Socket PDU 5 Amp - 1 NO.	
21.	Finish : Light Grey -RAL 7035-powder coated	
22.	Warranty: Three years comprehensive onsite warranty	

***Note: The actual quantity of Item No 22 will be as per actual consumption**

NOTE: Bidders should quote the rates including installation, transportation etc.

Annexure-II

Performance Bank Guarantee Template

[Date]

To,

The Managing Director,
H.P. State Electronics Development Corporation Ltd.,
First Floor, IT Bhawan, Mehli, Shimla-171013.

Dear Sir,

1. Whereas M/s _____ (hereinafter called “CONTRACTOR”) has supplied _____ (as per Bill of Material Specified in this Document) as per agreement/supply order No. _____ dated _____ signed between the HPSEDC (hereinafter called “Client”) and them and as per the agreement/supply order the M/s. _____ is supposed to furnish Performance Security for supply of _____ and maintain the same for a period of _____ years.
2. NOW THEREFORE KNOW ALL THE MAN THESE PRESENTS THAT WE, __ (Bank Name) _____ having its Head Office at _____ (hereinafter called “the Bank”) are bound up to the Client in the sum of Rs. _____ /- (Rs. _____) only) for which payment will and truly to be made to the said Client, the Bank binds itself, its successors and assignees by these presents.
3. The Bank further undertakes to pay to the purchaser up to the above amount on receipt of its first written demand, without the Client having to substantiate its demand. The Client’s decision in this regard shall be final and shall not be called upon to question under any circumstances. The Bank Guarantee will remain in force up to _____. However, its validity can be got extended before _____ solely at the instance of the Purchaser. This clause shall remain valid notwithstanding anything else contained to the contrary in this document.
4. Our responsibility under this guarantee is restricted to Rs. _____ /- (Rupees _____) only and it will remain enforce up to _____

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unless a demand in writing is received by the bank on or before _____, all your rights under the said guarantee shall be forfeited and we shall be released and discharged from all the liabilities thereunder.

5. This guarantee will remain in force up to <date of validity> and any demand in respect thereof should reach the Bank not later than the specified date/dates. However, notwithstanding anything else contained to the contrary in this Guarantee, if the implementing agency does not submit the fresh performance bank guarantee (as per required schedule and amount) till 15 days before expiry of this performance bank guarantee, the Purchaser may either forfeit the PBG or ask the Bank to extend validity of the Bank Guarantee for a further period not exceeding six months. In the latter situation, the Bank shall comply with such a request of extension.
6. Sealed with the Common Seal of the said Bank this _____ day of _____, 2022. In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this _____ day of _____, 2022 for Bank _____

Witness

Signature

Name

M/s. _____ (complete address)

Note: This guarantee will attract stamp duty as a security bond.

A duly certified copy of the requisite authority conferred on the official/s to execute the Guarantee on behalf of the bank should be annexed to this guarantee for verification and retention thereof as documentary evidence.

Annexure-III

Bank Guarantee (BG) Format for EMD

Date _____

To

The Managing Director,
H.P. State Electronics Development Corporation Ltd., First Floor, IT
Bhawan, Mehli, Shimla-171013.

Dear Sir,

1. Whereas M/s. _____ (hereinafter called "Bidder") has quoted against the Tender No: **SEDC/Nauni/NETWORK/2K22-154**
2. Invited by M/s H.P. State Electronics Development Corporation Ltd. (HPSEDC) towards supply of _____ is supposed to furnish Bank Guarantee the same valid for a period of 120 days.
3. NOW THEREFORE KNOW ALL THE MAN THESE PRESENTS THAT WE, _____ (Bank Name) _____ having its Head Office at _____ (hereinafter called "the Bank") are bound up to the Client in the sum of Rs. _____/- (Rs. _____) only) for which payment will and truly to be made to the said Client, the Bank binds itself, its successors and assignees by these presents.
4. The Bank further undertakes to pay to the purchaser up to the above amount on receipt of its first written demand, without the Client/ HPSEDC having to substantiate its demand. The Client's decision in this regard shall be final and shall not be called upon to question under any circumstances. The Bank Guarantee will remain in force up to 120 days. However, its validity can be got extended before expiry of its validity solely at the instance of the HPSEDC. This clause shall remain valid notwithstanding anything else contained to the contrary in this document.
5. Our responsibility under this guarantee is restricted to Rs. _____/- (Rupees _____) only and it will remain enforce up to _____ unless a demand in writing is received by the bank on or before _____, all your

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rights under the said guarantee shall be forfeited and we shall be released and discharged from all the liabilities thereunder.

6. This guarantee will remain in force up to <date of validity> and any demand in respect thereof should reach the Bank not later than the specified date/dates. However, notwithstanding anything else contained to the contrary in this Guarantee, if the bidder does not submit the fresh bank guarantee or extend the existing Bank Guarantee till 15 days before expiry of this bank guarantee, the Purchaser/ HPSEDC may either forfeit the BG or ask the Bank to extend validity of the Bank Guarantee for a further period not exceeding six months. In the latter situation, the Bank shall comply with such a request of extension.
7. Sealed with the Common Seal of the said Bank this _____ day of _____, 2022. In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this _____ day of _____, 2022 for Bank _____

Witness

Signature

Name

M/s. _____ (complete address)

Note: This guarantee will attract stamp duty as a security bond.

A duly certified copy of the requisite authority conferred on the official/s to execute the Guarantee on behalf of the bank should be annexed to this guarantee for verification and retention thereof as documentary evidence.

Latest instructions for bidders:

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- IV. The beneficial owner for the purpose of (III) above will be as under:
 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation—

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

The Bidder has to provide following declarations (duly signed and stamped):

Declaration 1 of Latest instructions to bidders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country and is eligible to be considered."

Declaration 2 of Latest instructions to bidders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that this bidder is not from such a country

or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]

Declaration 3 of Latest instructions to bidders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached"

In case bidder is Himachal based company/ firm/ entity then the bidder should submit a self-declaration certificate regarding above mentioned Declaration 1, 2 and 3.

Note: Interested bidder may refer to Office Memorandum (F. No. 6/18/2019-PPD) dated 23.07.2020 of Department of Expenditure, Ministry of Finance, Govt. of India for further details and all the requirement will be in accordance with this memorandum.