

THE UNIVERSITY OF MALAKAND

1.1.1.1

Request for Proposals for the Extension of Network Facilities (ENF)

**Please mark all proposal submission
Envelopes with the following information**

Sealed RFP # UoM-ENF

Closing on July 31, 2017

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1 STATEMENT OF WORK

1.1 Summary

University of Malakand, is soliciting proposals from interested vendors to furnish the University with the enhancement of existing networking infrastructure, networking equipment, software, and hardware installation services.

1.2 Coverage and Participation

The intended coverage of this RFP and any agreement resulting from this solicitation shall be for the use of all Departments at the University of Malakand.

The University reserves the right to add and/or delete elements, or to change any element of the coverage and participation at any time without prior notification and without any liability of any kind or amount.

2 GENERAL INFORMATION AND INSTRUCTIONS TO PROPOSERS

2.1 Original RFP Document

The University of Malakand shall retain the RFP, and all related terms and conditions, exhibits and other attachments, in original form in an archival copy. Any modification of these, in the vendor's submission, is grounds for immediate disqualification.

2.2 University Demographics

The University of Malakand (UoM) is a public sector Higher Education Institute, situated in Chakadara District lower Dir, Khyber Pakhtunkhwa. There are twenty four departments, promoting quality education. All Departments have highly qualified teachers and well equipped labs. It is primarily a research, teaching, affiliating, and examining body involved in promotion of not only science and technology but other branches of learning as well. The University is open to all classes and creeds with the sole objective to carry people from darkness to light. The University of Malakand is offering higher education to over 5000 enrolled students. The total number of faculty is 212. Expected population of the university in the next ten years is 10000. The UoM is currently offering the following major disciplines:

1. Bio-Technology
2. Botany
3. Chemistry
4. Computer Science & IT
5. Economics
6. Education
7. English
8. Geology
9. Islamic Studies
10. Journalism and Mass Communication
11. Law
12. Management Studies
13. Mathematics
14. Pashto

15. Political Science
16. Pharmacy
17. Physics
18. Psychology
19. Sociology
20. Social Work
21. Software Engineering
22. Statistics
23. Tourism & Hotel Management
24. Zoology

UoM wants to leverage Information Technology to impart top quality education to the youth of Khyber Pakhtunkhwa in particular and Pakistan in General.

The current Network Infrastructure was established in 2004 and with the passage of time, extension was made gradually. Currently, the IT center is connecting the 24 departments with the Internet using 76 MB bandwidth. The following diagram shows the overall structure.

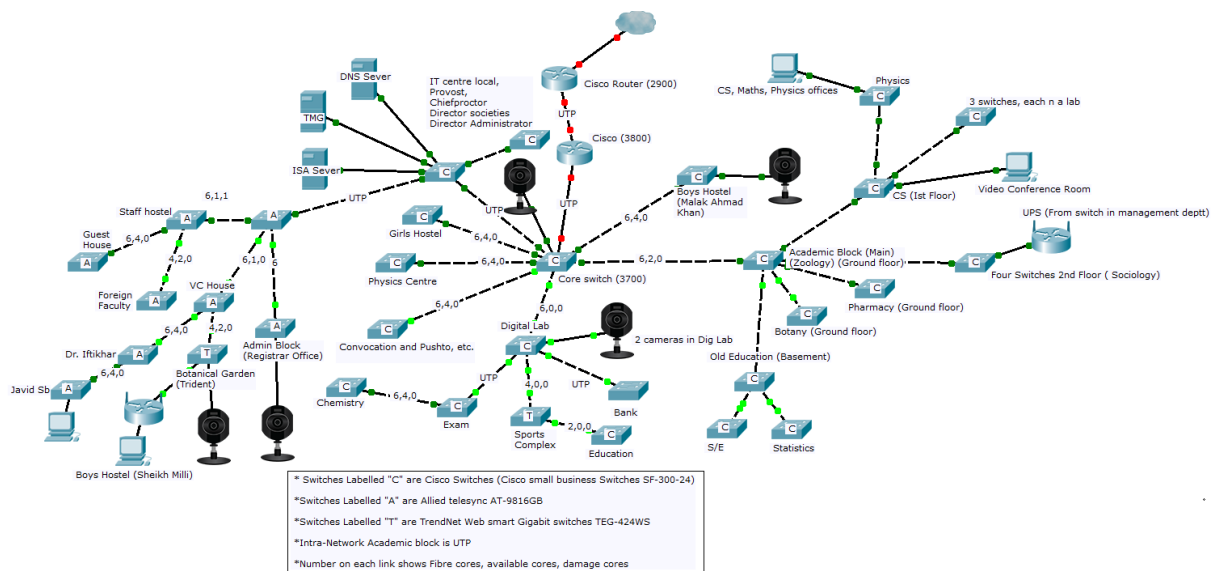


Figure 1: Current IT Infrastructure

This Infrastructure includes a server room, digital library and many other Departments which are connected with the server room. A 76 Mb internet line has been acquired for server room. Server room consist of two racks. On one rack one core switch and three Distributed switches are installed while the 2nd rack comprised of two DNS Servers and two ISA servers.

The main line of the optical fiber terminates in the PTCL converter and the Converter is connected with the CISCO Router, on which static Route and Natting are configured. From Cisco Router the line terminates into core switch from where internet is distributed to different Departments through optical lines.

Since the number of users is increasing day by day, new departments are opening and the need for fast internet connectivity is increasing, UoM want to analyse the existing infrastructure (which was established in 2004), replace those equipment which are outdated and extend the existing infrastructure according to new demands.

2.3 Schedule of Events

The following is the tentative schedule that will apply to this RFP, but may change in accordance with the University's needs.

03-07-2017 Issuance of RFP

17-07-2017 Pre-Bid Meeting

31-07-2017 RFP Closes

2.4 Proposal Preparation Instructions

2.4.1 Vendor's Understanding of the RFP

In responding to this RFP, the vendor accepts the responsibility fully to understand the RFP in its entirety, and in detail, including making any inquiries to the University as necessary to gain such understanding. The University reserves the right to disqualify any vendor who demonstrates less than such understanding. Further, the University reserves the right to determine, at its sole discretion, whether the vendor has demonstrated such understanding. Related to this, the University's right extends to cancellation of award if award has been made. Such disqualification and/or cancellation shall be at no fault, cost, or liability whatsoever to the University.

2.4.2 University Provides Information in Good Faith without Liability

All information provided by the University in this RFP is offered in good faith. Individual items are subject to change at any time. The University makes no certification that any item is without error. The University is not responsible or liable for any use of the information, or for any claims attempted to be asserted therefrom.

2.4.3 Verbal versus Written Communication

Verbal communication shall not be effective unless formally confirmed in writing by the specified University official in charge of managing this RFP's process. In no case shall verbal communication override written communication.

2.4.4 Questions, Communications and Inquiries between the University and Vendors

All Vendor inquiries, questions and requests for clarification related to this RFP are to be directed, in writing (e-mail etc.), **ONLY** to the buyer listed below. Once this RFP has been sent out, Vendors **are not to contact any University Department**, other than the focal person, **concerning this RFP**:

The University of Malakand

Chakdara, Dir

Khyber Pakhtunkhwa

Chairman Department of Computer Science and IT

Telephone No. 0342 0950 826

E-Mail Address: srahman@uom.edu.pk

Applicable terms and conditions herein shall govern communications and inquiries between the University and vendors, as they relate to this RFP.

Informal communications shall include but are not limited to requests from/to vendors or vendors' representatives of any kind or capacity, to/from any University employee or representative of any kind or capacity, for information, comments, speculation, etc. Inquiries for clarifications and information that will not require addenda may be submitted verbally to the Buyer named above, at any time.

Formal communications shall include but are not limited to the following.

- Questions concerning this RFP must be submitted in writing, and be received **prior to July 17, 2017.**
- Errors and omissions in this RFP and enhancements. Vendors shall bring to the University's attention any discrepancies, errors, or omissions that may exist within this RFP. Vendors shall recommend to the University any enhancements in respect to this RFP, which might be in the University's best interests. These must be submitted in writing, and be received **prior to July 17, 2017.**
- Inquiries about technical interpretations must be submitted in writing, and be received **prior to July 17, 2017.**
- Inquiries for clarifications / information that will not require addenda may be submitted verbally to the Buyer named above at any time during this process.
- Verbal and/or written presentations and pre-award negotiations under this RFP.
- Addenda to this RFP.

2.4.5 Addenda and the University's Response to Communications from Vendor.

The University will make a good-faith effort to provide a written response to each question or request for clarification that requires addenda within five (5) University business days.

The University will not respond to any questions / requests for clarification that require addenda, if received by the University after **July 17, 2017.**

2.4.6 Pricing and/or Revenue Proposal

Vendors shall indicate pricing and/or revenue offers in the appropriate spaces and/or areas provided in this RFP. Vendors shall ensure that any departure from this condition results in an offer that is clearly cross-referenced to the applicable sections within this RFP. For any material departure from this condition, vendors shall provide clear and unambiguous explanations how the departure relates in detail to the applicable sections within this RFP. If the vendor responds with an "All or None" proposal, it shall be clearly and unambiguously marked as such.

The University may presume and hold as the vendor's final offer all pricing and/or revenue offerings, whether stated as amounts or percentages, and/or whether or not offered on an all-or-none basis, if not specified by the vendor. The University may accept or reject in part or entirely the vendor's pricing and/or revenue offerings when such offerings are not on an all-or-none basis. Vendor's pricing and/or revenue proposals may not be modified after the RFP closing date and time unless University at its sole discretion decides that future negotiations will only enhance the Vendor's offer to University. Should University decide that such negotiations would not be in University's best interests, pricing and revenue offer by Vendor at closing date and time may be considered by University as the Vendor's best and final offer. Unless otherwise specifically proposed by the vendor, the University reserves the right to hold such pricing and/or revenue proposal as effective for the entire intended contract term. The University may prescribe the manner and method by which pricing and/or revenue offerings shall be communicated in the vendor's proposal. The University may reject any proposal in which the pricing and/or revenue offering does not conform to such prescribed manner and method. Vendors shall indicate pricing and/or revenue offers in the appropriate spaces and/or areas provided in this RFP. Vendors shall ensure that any departure from this condition results in an offer that is clearly cross-referenced to the applicable sections within this RFP. For any material departure from this

condition, vendors shall provide clear and unambiguous explanations how the departure relates in detail to the applicable sections within this RFP. If the vendor responds with an "All or None" proposal, it shall be clearly and unambiguously marked as such.

2.4.7 Revisions to the RFP

The University may revise any part of this RFP for any reason by issuing addenda. The University will communicate additional information and addenda to this RFP by mail/eMail.

Vendors that want the revisions supplied to them in another way must notify the buyer listed in this document of that request. Otherwise, it will be the vendor's responsibility to check for any additional information and addenda concerning this RFP.

Vendors are responsible for the information contained in such addenda, whether or not they acknowledge receipt. The University is under no obligation to communicate such addenda to vendors who notify the University that they will not be responding to this RFP. The University may determine whether an addendum will be considered as part of this RFP and/or as part of any contract resulting there from. The University shall reject vendors' responses to addenda if such responses are received after the RFP closing date and time.

2.4.8 Attention to Terms and Conditions

Vendors are cautioned to thoroughly understand and comply with all matters covered under the Terms and Conditions section of this RFP. The successful Vendor is expected to enter into a form of agreement approved by the University of Malakand. The University agreement terms and conditions included in this RFP are intended to be incorporated into this agreement. Proposals that are contingent upon any changes to these terms and conditions may be deemed to be non-responsive and may be rejected.

2.4.9 Required Signatures

The University may reject any vendor's response if it is not signed as indicated and/or required by the areas, spaces, or forms provided within this RFP.

2.4.10 Proposal Organization

Vendors shall present proposals in a format that can be readily incorporated into a contract. Vendors may present narrative proposals provided that such proposals follow the same outline and numbering scheme of this RFP, including full descriptive cross-references to all requirements listed in the section titled "Specifications". Vendors shall ensure that their proposals include page numbers and are organized in a manner that will facilitate the University's evaluation of them. **The University reserves the right to reject without prior notice and without liability of any kind or amount any proposal that it deems overly complex, disorganized, or difficult to evaluate.** The University reserves the right to make such a decision without any input or communication from any other party. Vendors shall ensure that, at a minimum, their proposals contain the components set forth in the following list.

- Original required sections from this RFP
- Any additional responses in corresponding sequence order
- Any additional supporting data

2.4.11 Collusion Prohibited

In connection with this RFP, vendor collusion with other vendors or employees thereof, or with any employee of the University, is prohibited and may result in vendor disqualification and/or cancellation of award. Any attempt by the vendor, whether successful or not, to subvert or skirt the principles of

open and fair competition may result in vendor disqualification and/or cancellation of award. Such disqualification and/or cancellation shall be at no fault or liability whatsoever to the University.

2.4.12 Improper Business Relationships / Conflict of Interest Prohibited

In connection with this RFP, each vendor shall ensure that no improper, unethical, or illegal relationships, or conflict of interest exists between or among the vendor, the University, and any other party to this RFP. The University reserves the right to determine the materiality of such relationships, when discovered or disclosed, whether intended or not; and to decide whether or not vendor disqualification and/or cancellation of award shall result. Such disqualification and/or cancellation shall be at no fault or liability whatsoever to the University.

2.5 PROPOSAL SUBMISSION AND SUBSEQUENT ACTION

Proposals must be delivered sealed to: Convener Purchase Committee, The University of Malakand, Chakdara, Khyber Pakhtunkhwa, on or prior to July 31, 2107 before 3:00 p.m. Bids must be submitted via registered/courier service. No submissions will be entertained by hand. The University shall not accept proposals received by facsimile. The University shall, at the specified closing date and time, accept all proposals that are otherwise in order. The University will allow interested parties to be present for purposes of identifying which vendors have responded. The University will make no immediate decision at such time, and **there will be no disclosure of any information contained in any proposal until after formal notice of award and execution of any contract resulting from this RFP.** When multiple solicitations have been scheduled to open at the same date and time, the University will open solicitations that have interested individuals present in sequential order by solicitation number. The University will hold unopened any proposals received after the closing date and time, and will not consider such proposals. The University reserves the right to retain or dispose of such proposals at its discretion; however, the University may return such proposals to their related vendors, but only at such vendor's request and at no cost or expense whatsoever to the University.

2.5.1 Proposal Costs

The University is not liable in any manner or to any extent for any cost or expense incurred by any vendor in the preparation, submission, presentation, or any other action connected with proposing or otherwise responding to this RFP. Such exemption from liability applies whether such costs are incurred directly by the vendor or indirectly through the vendor's agents, employees, assigns or others, whether related or not to the vendor.

2.5.2 Faxes Not Accepted

The University shall not accept proposals received by fax.

2.5.3 Number of Proposal Copies to be furnished

Vendors are to submit one hard copy, and one second soft copy.

2.5.4 Binding and Marking

Vendors shall ensure that the hard copy is banded. When submitting more than one (1) proposal, vendors shall ensure that units are clearly marked; for example, as "Hard copy of Proposal One," "Soft Copy of Proposal One," "Hard Copy Proposal Two," "Soft Copy of Proposal Two;" and so on.

2.5.5 Marking of Envelopes

Vendors shall ensure that the submittal envelope(s) clearly and conspicuously display the following identifying information in addition to any other information otherwise required for transmittal, and are sealed.

RFP # UOM-ENF

2.5.6 Withdrawal of RFP

Vendors may withdraw their proposals any time prior to the RFP closing date. Vendors may request to withdraw their proposals after the RFP closing date and any time prior to selection and notice of award. The University shall have sole authority to grant or deny such a request. In the event the University grants such a request, it may withhold issuing future RFP's to such vendors.

2.5.7 University's Right to Use Vendor's Ideas / Proprietary Information

If the vendor needs to submit proprietary information with the proposal, the vendor shall ensure that it is enclosed in a separate envelope from the proposal and that it is clearly designated and conspicuously labelled as such.

The University shall have the right to use any ideas that are contained in any proposal received in response to this RFP, along with any adaptation of such ideas. Selection or rejection of the proposal shall not affect the University's right of use. Provided, however, that the University will, in good faith, honor any vendor information that is enclosed in a separate envelope from the proposal and clearly designated and conspicuously labelled as proprietary, and the University concurs that the information is proprietary, clearly designated and conspicuously labelled as proprietary, and the University concurs that the information is proprietary, that trade secrets or other proprietary data contained in the proposal documents shall be maintained as confidential in accordance with procedures promulgated by the University of Malakand and subject to limitations of Federal law. **Pricing information cannot be considered proprietary.** The University shall not be liable in any manner or in any amount for disclosing proprietary information if such information is not clearly so designated and conspicuously so labeled. The University shall likewise not be liable if it did not know or could not have reasonably known that such information was proprietary.

2.6 EVALUATION PROCESS AND AWARD

2.6.1 Proposal Acceptance/Rejection

The University reserves the right to reject any or all proposals. Such rejection may be without prior notice and shall be without any liability of any kind or amount to the University. The University shall not accept any proposal that the University deems not to be in its best interests. The University shall reject proposals submitted after the closing date and time.

2.6.2 Errors and Omissions in Vendors Proposals

The University may accept or reject any vendor's proposal, in part or in its entirety, if such proposal contains errors, omissions, or other problematic information. The University may decide upon the materiality of such errors, omissions, or other problematic information.

2.6.3 Determination of and Information Concerning Vendor's Qualifications

The University reserves the right to determine whether a vendor has the ability, capacity, and resources necessary to perform in full any contract resulting from this RFP. The University may request from vendors information it deems necessary to evaluate such vendors' qualifications and capacities to deliver the products and/or services sought hereunder. The University may reject any vendor's proposal for which such information has been requested but which the vendor has not provided. Such information may include but is not limited to:

- Financial resources
- Personnel resources

- Physical resources
- Internal financial, operating, quality assurance, and other similar controls and policies
- Resumes of key executives, officers, and other personnel pertinent to the requirements of the RFP
- Customer references
- Disclosures of complaints or pending actions, legal or otherwise, against the vendor

2.6.4 Apparently Conflicting Information Obtained by Vendor

The University is under no obligation whatsoever to honour or observe any information that may apparently conflict with any provision herein, regardless of whether such information be obtained from any office, agent, or employee of the University. Such information shall not affect the vendor's risks or obligations under a contract resulting from this RFP.

2.6.5 Rejection of Vendor Counter-offers, Stipulations and Other Exceptions

Any vendor exception, stipulation, counter-offer, requirement, and/or other alternative term or condition shall be considered rejected unless specifically accepted in writing by the University and thereafter incorporated into any contract resulting from this RFP.

2.6.6 Method of Award

The evaluation of each response to this RFP will be based on its overall competence, compliance, format, and organization and pricing. The award shall be made to the responsible vendor whose proposal is determined to be the most advantageous to the University of Malakand, taking into consideration the following evaluation criteria listed in the relative descending order of importance. Pricing may be a criterion. However, the University is under no obligation whatsoever to select, as most responsive the proposal that demonstrates the lowest pricing, but not necessarily the one receiving the highest overall score.

2.6.7 Evaluation Criteria

Method:

All bids shall be evaluated first on technical merit and then on financial merit.

Technical evaluation process may include, but not limited to the consideration of the following with respect to the functional requirements given earlier:

- Proposed design
- Proposed equipment
- Vendor history and experience
- Vendor's ability to provide necessary backup and support
- Vendor's status i.e. Premier Partner, Distributor or reseller for the quoted product
- Only financial proposals of vendors short-listed after the technical evaluation will be considered.
- Financial evaluation process may include, but not limited to the consideration of the following:
 - Lowest quoted price
 - Financial strength of the vendor

Vendors whose proposals are not accepted will be notified after a contractual agreement exists between the University and the selected proposer or when the University rejects all proposals.

The contract will consist of the University's RFP, the proposal with any and all revisions, award letter, and/or purchase order, and/or the signed agreement between the parties, as stated in that agreement.

2.6.8 Selection, Negotiation, Additional Information

Although the University reserves the right to negotiate with any vendor or vendors to arrive at its final decision and/or to request additional information or clarification on any matter included in the proposal, it also reserves the right to select the most responsive vendor or vendors without further discussion, negotiation, or prior notice. The University may presume that *any proposal is a best-and-final offer*.

2.6.9 Pre-Award Presentations

The University reserves the right to require presentations from the highest ranked vendors, in which they may be asked to provide information in addition to that provided in their proposals.

2.6.10 Pre-Award Negotiations

The University reserves the right to negotiate prior to award with the highest ranked vendors for purposes of addressing the matters set forth in the following list, which may not be exhaustive.

- Resolving minor differences and scrivener's errors
- Clarifying necessary details and responsibilities
- Emphasizing important issues and points
- Receiving assurances from vendors
- Obtaining the lowest and best pricing and/or revenue agreement

2.6.11 Notification of Non-selection

The University reserves the right not to notify vendors whose RFP responses are not selected for further consideration or notice of award. If the University decides to notify such vendors in writing, it will send the notifications to the address indicated in each such vendor's proposal.

2.6.12 Vendor's Need to Use Proprietary Rights of the University

All information proprietary to the University and disclosed by the University to any vendor shall be held in confidence by the vendor and shall be used only for purposes of the vendor's performance under any contract resulting from this RFP.

2.6.13 Public Record

After the award and execution of a contract resulting from this RFP, vendors' proposals become public record and are available for review during the University's regular office hours. The University will, in good faith and to the extent allowed by law, honor any vendor information that is clearly designated and conspicuously labeled as proprietary, and the University agrees that the information is proprietary.

2.7 Required Information

Bidders are required to include the following documents/information with their bids:

- Contact person name, Phone number, email address and address
- Company profile
- Project history/Client list with verifiable contacts
- Detailed product information/brochures
- Detailed product warranty/guarantee information
- GST registration/NTN number

- Proof of GST/Sales Tax exempt status (if applicable)
- Proof of Distributorship/Dealership/Authorized Reseller/Premier Partner status for the quoted or represented products
- Bank letter of financial standing

In addition to the above, Technical Proposals must include the following in the order given:

- Detailed equipment specifications
- Detailed Network Diagram (for LAN)
- Detailed layout diagram (network cabling/electrical cabling)
- Detailed analysis of the proposed solution/equipment with respect to UOM requirements.
- Delivery/completion period/date.

The financial proposal must include:

- Equipment prices
- Validity period of the quoted price.
- Educational discounts if available/applied to the quoted price.

3 DEFINITIONS

3.1 Agreement / Contract

All types of agreements entered into by the University of Malakand, regardless of what they may be called, for the procurement of materials, or the computerization and networking of business. Meaning is interchangeable.

3.2 Customer

Unless otherwise implied by the context of the specific provision within this RFP, "Customer" means a customer of the vendor, other than the University.

3.3 May, Should

Indicates something that is not mandatory but permissible, recommended or desirable.

3.4 Must, Shall, Will.

Indicates a mandatory requirement. Failure to meet these mandatory requirements may result in rejection of your proposal as non-responsive.

3.5 Proposal

The entirety of the vendor's responses to each point of this RFP, including any and all supplemental offers or information not explicitly requested within this RFP.

3.6 Proprietary Information

Information held by the owner that, if released to the public or anyone outside the owner's organization, would be detrimental to its interests. It is an issue of fact rather than opinion. Pricing and/or revenues cannot be considered proprietary.

3.7 Vendor

For purposes of this RFP, "Vendor" means any entity responding to this RFP with the intention of winning the resulting award of contract, performing the work, and/or delivering the goods specified herein.

3.8 Provider

Same as Vendor.

3.9 Request for Proposal (RFP)

A competitive negotiation process. It is not to be confused with a Request for Bid (RFB), in which goods or services are precisely specified and price is substantially the only competitive factor. This RFP provides the University the flexibility to negotiate to arrive at a mutually agreeable relationship. Price will be considered, but will not be the only factor of evaluation.

3.10 Respondent

Same as Vendor.

3.11 Response

Same as Proposal.

3.12 Successful Vendor

Any vendor selected by the University to receive a notice of award as a result of this RFP and to enter into a contract to provide the University with the products or services sought by this RFP.

3.13 Supplemental Agreement

Any supplemental terms and conditions agreed to by the parties in writing taking precedence over all other documents governing the transaction.

3.14 Supplier

Same as Vendor.

3.15 University

University of Malakand.

3.16 Vendor's Proposal.

Same as Proposal.

3.17 Vendor's Response

Same as Proposal.

4 AGREEMENT TERMS AND CONDITIONS

The following are the Terms and Conditions that will become part of any Agreement consummated between the University and the Successful Vendor.

4.1 Actions of Successful Vendor

The University is under no obligation whatsoever to be bound by the actions of any Successful Vendor with respect to third parties. The Successful Vendor is not a division or agent of the University.

4.2 Advertising

The Successful Vendor shall not advertise or publish information concerning the Agreement without prior written consent of the University. The University shall not unreasonably withhold permission.

4.3 Certification

By signature on the “Proposal Certification” form included herein, the Vendor certifies that the submission of the proposal did not involve collusion or other anti-competitive practices. The Vendor has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted proposal. In addition, Vendor certifies whether or not an employee of the University has, or whose relative has, a substantial interest in any Agreement subsequent to this RFP. Vendor also certifies their status with regard to debarment, or suspension by any federal entity.

Failure to provide a valid signature affirming the stipulations required by this clause shall result in the rejection of the submitted proposal and, if applicable, any resulting Agreement. Signing the certification with a false statement shall void the proposal and, if applicable, any resulting Agreement. Any resulting Agreement may be subject to legal remedies provided by law. Vendor agrees to promote and offer to the University only those services and/or materials as stated in and allowed for under resulting Agreement(s).

4.4 Federal, State, and Local Taxes, Licenses and Permits

Successful Vendor is solely responsible for complying with all laws, ordinances, and regulations on taxes, licenses and permits, as they may apply to any matter under this RFP. The Successful Vendor must demonstrate that they are duly licensed by whatever regulatory body may so require during the performance of the Agreement. Prior to the commencement of Agreement, the Successful Vendor shall be prepared to provide evidence of such licensing as may be requested by the University. Successful Vendor shall, at no expense to the University, procure and keep in force during the entire period of the Agreement all such permits and licenses.

4.5 Sales and Use Tax

The Successful Vendor agrees to comply with and to require all of his subcontractors to comply with all the provisions of applicable law. The Successful Vendor further agrees to indemnify and hold harmless the University from any and all claims and demands made against it by virtue of the failure of the Successful Vendor or any subcontractors to comply with the provisions of any and all said laws. The University is not exempt from state sales and use tax, except for equipment purchased for research or development. Any equipment ordered as tax exempt shall be invoiced separately from taxable systems, even if purchased on the same purchase order as issued by the University.

4.6 Assignment-Delegation

No right or interest in the Agreement shall be assigned or delegation of any obligation made by Successful Vendor without the written permission of the University. Any attempted assignment or delegation by Successful Vendor shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.

4.7 Force Majeure

Completion/Installation/Delivery being delayed by causes beyond normal control such as strikes, acts of God, civil commotion, restraints of ruler, flood, riots, fire, storms, war or similar occurrences will not be a cause for UOM to take remedial action against the affected vendor's/bidder's, provided the vendor's/bidder's provide necessary proof that such delay was caused by Force Majure. Verification and relief clauses to determine Force Majure will be added to the work orders/agreements.

4.8 Currency

All prices should be in PAK Rupee exclusive of taxes.

4.9 Validity

All prices should be valid for at least 60 days.

4.10 Delivery

Delivery of Item will be free of charge at University of Malakand, Chakdara, Dir Khyber Pakhtunkhwa during the office hours with a copy of delivery challan.

4.11 Advance Payment

Part/advance payment will not be entertained; the payment will be made after complete delivery of ordered items, inspection and installation by the authorized person.

4.12 Supplied Items Condition

Items being ordered should be brand new and according to ordered specification from the current production and covered under normal warranty/guarantee etc. as mention in the quote. Brochures and product details must be attached.

4.13 Delivery Schedule.

The proposals task should be completed within forty (40) days after the award.

4.14 Third Party

Third party services required for completion of certain components will be the responsibility of the primary bidder submitting the bid. UoM will not be a party to any contract between the primary bidder and sub-contractor.

4.15 Intellectual Property

It is understood that ownership of intellectual property developed as a result of fulfilling the requirements of this Request for Proposal belongs to the University of Malakand only. Documents/drawings used in this proposal belong to the University of Malakand and/or are being used with permission. Intellectual property means inventions, patent applications, patents and mask works, drawings and/or blueprints.

4.16 Payment Terms

GST Invoice/Bill may be submitted along with delivery challan to University of Malakand for processing the payment after satisfactory completion/execution of the supply order, which includes installation, testing and our acceptance/inspection thereof.

4.17

5 SCOPE OF WORK, SPECIFICATIONS, TECHNICAL REQUIREMENTS

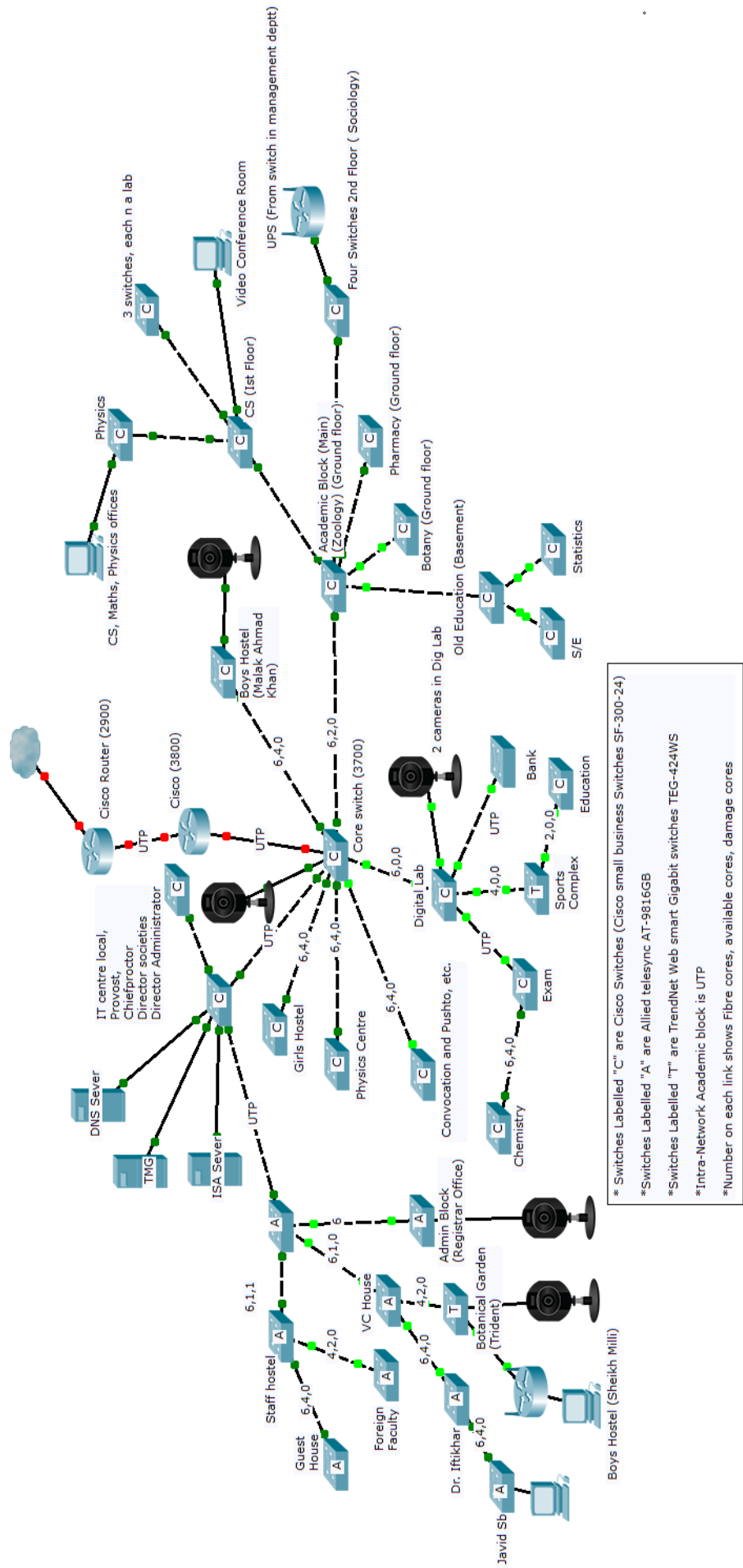
5.1 Project Background

The University of Malakand (UoM) is a public sector Higher Education Institute, situated in Chakadara District lower Dir, Khyber Pakhtunkhwa. There are twenty four departments, promoting quality education. All Departments have well equipped labs. The University of Malakand is offering higher education to over 5000 enrolled students. The total number of faculty is 212. Expected population of the university in the next ten years is 10000.

5.2 Current Networking Infrastructure in Malakand University

- **Available Resources**
- Five servers, Two routers(One running, one backup)
- Two core switches (one is allied taleysn, second is cisco 3750 series):
- Total access switches 55 (Tridant 8, Cisco 30, Allied Telesync 17, 4 damage)
- **Server room consist of two racks.**
- **Rack one:** Two core switches (one allied telesyn (AT8024-GB)+Cisco 3750), and Two cisco router (2900, 3800), two distribution switches (Cisco SF300-24)
- Rack two: Two DNS Servers and two ISA servers +1 TMG
- The main line of the optical fibre terminates in the PTCL converter and the Converter is connected with the CISCO Router, on which OSPF is running for PERN2 connectivity. From Cisco Router the line terminates in to core switch from where internet is distributed to different departments through optical lines and the overall Network is flat.
- A 70 Mb internet line has been acquired for server room.
- A 10mbps of Internet link is available as backup in case of failure of the primary link.

The current networking infrastructure is shown in the following figures.



* Switches Labelled "C" are Cisco Switches (Cisco small business Switches SF-300-24)
 *Switches Labelled "A" are Allied telesync AT-9816GB
 *Switches Labelled "T" are TrendNet Web smart Gigabit switches TEG-424WS
 *Intra-Network Academic block is UTP
 *Number on each link shows Fibre cores, available cores, damage cores

Figure 5.1 The current networking infrastructure at University of Malakand

5.3 Servers' configuration

IBM System x series 236

- **Processor** : Four-core Intel ® Xeon x Series 236 2.40 GHz with 12 MB of cache per processor **RAM** :2Gb
- **Hard drive**: 70 Gb (RAID Controller)
- **Expansion slots**: Five PCI and 1 PCI standard; additional 2 PCI-X
- **Network interface**: Integrated dual Fast Ethernet
- **Hot-swap components**: Fans and hard disk drives standard, power supply
- **Operating system** : Window server 2003 sp2

HP Proliant Server :

- **Processor** : Intel core i3 , 4150 , 3.50 GHz
- **RAM** :8GB
- **Hard drive**: 1TB
- **Network interface**: Integrated dual Gig Ethernet
- **Hot-swap components**: Fans and hard disk drives standard, power supply
- **Operating system** : Window server 2008 R2

5.3.1 Services offered:

- **DNS**: Two servers act as a DNS server which helps ISA servers to resolve names and ip,s.
- **ISA**: ISA server act as firewall that controls internet traffic and also monitors the incoming and out coming traffic.
- **TMG Server** :Act is firewall that controls and distribute internet facility at campus

5.3.2 Router

Cisco Router 2900 series is configured in server. The main feature of the Cisco 2900 series is as follow:

WAN Connectivity: Through the industry's widest choices including T1/E1, T3/E3, 4G/LTE, xDSL, copper, and fibre Gigabit Ethernet.

WAN Optimization: With support for router-integrated, on-demand WAN optimization and application acceleration through service modules

Highly Integrated Security: With a comprehensive suite of VPN technology with IPSec and SSL VPNs enhanced by onboard encryption.

Unified Communications: That support call processing and voicemail services.

Media net: Services that deliver a more visual, social and experience through video networking solutions

High Performance: With powerful and energy-efficient multi core processors, a multi gigabit fabric, and high-performance services modules that can run multiple concurrent services offered in a scalable manner at high throughputs.

5.3.3 Specifications at a Glance

The Cisco 2900 Series Integrated Services Routers include:

- 2 RU and 1 RU units with up to 3 GE ports and up to 1 SFP port
- UCS-E service module that can support Cisco and third-party apps, VMware ESXi, and MS hypervisor
- Up to 2 service modules, 1 integrated service module (ISM) to host application services
- Enhanced High-Speed WAN Interface Card (EHWIC) slots
- **Security**
 - Embedded hardware-accelerated VPN encryption, and Cisco Cloud Web Security
 - Integrated threat control using Cisco IOS Firewall and Cisco IOS IPS
- **Unified Communications**
 - 2 or 3 on-board digital signal processor (DSP) slots optimized for voice and video
 - Cisco Unified Border Element capabilities for up to 2100 sessions
 - Support for Cisco Unified Communications Manager Express, Cisco Unified Survivable Remote Site Telephony, and Cisco Unified Enhanced Survivable Remote Site Telephony (E-SRST)

5.4 Laptops Dell Inspiron N5110 ci5

- **Processor Type:** Intel® Core™ i5
- **Processor Speed :** 2.40GHz
- **Hard drive size :** 500GB
- **Installed RAM** 4GB
- **LAN :** Speed 10/100/1000
- **Wireless/Wi-Fi:** Type 802.11 b/g/n
- **Window:** Window 7 home premium

5.5 Optical fibre

The network infrastructure of the Malakand University has optical fibre and all the departments are connected to the server room with optical fibre.

5.6 Goal of the Project

The objective of this RFP is to analyse the current infrastructure, networking equipment, network design and to upgrade the existing infrastructure in order to fulfil current and future needs of the university. This need to be done by augmenting the existing facilities so as to enhance the network infrastructure and internet services for UoM. Goals of the project are as follows:

1. Analysing the overall network and suggestions for the replacement of those equipment which are outdated. The RFP should provide details information about the required routers, servers, core switches, access switches, SF modules, backup etc.
2. Improving the internal efficiency of UoM Internet operations of all Divisions/Sections.
3. Enhancing the internet infrastructure that would enable wide spread connectivity for students, faculty members and management.
4. All the laboratories, hostels and university offices are to be interconnected.
5. Extending the internet facilities to all locations and removing internet connectivity issues.
6. Flexible distribution of internet bandwidth to all clients round the clock 24/7.
7. The current bandwidth is 70 Mb. Suitable bandwidth should be suggested for smooth running of the internet operations.
8. Each and every client should be provided secure and authenticated access to shared resources.
9. PROXY server to counter the threats and safeguard the main servers
10. Contingency plan must be produced in case of failure of the primary plan
11. Backup and ghost facility of all steps in soft and hard (manuals)
12. Distributed media storage for authorized users
13. Installation of the new equipment.
14. Training of the human resource for operating the new installations.

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