REQUEST FOR QUOTATION

Date: 20 APRIL 2015
Quotation Number 2015-244
Mode of Procurement SLP

Please quote us your best offer on the items listed below, subject to the terms and conditions:

Submitt sealed quotation to SPSO City Campus or Miag-ao Campus or E-MAIL to: supply_property@yahoo.com
Indicate company name, address and quotation number on the envelope or in your email subject
Affix full signature over printed name

Please address to: Esterlina I. Gamez
Chief, SPSO, U.P. Visayas
Miag-ao, Iloilo

Deadline: April 24, 2015

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Qty</th>
<th>Unit</th>
<th>Item and Description</th>
<th>Offered Brand or Model</th>
<th>Unit Price</th>
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<td>Core Internet Connection in UPV Iloilo City Campus</td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>1</td>
<td>lot</td>
<td>Student Internet Bandwidth for UPV Miag-ao Campus</td>
<td>(As per attached Terms of Reference)</td>
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<td>DKP Internet Fees</td>
<td>TOTAL</td>
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Our Terms and Conditions
1. DELIVERY PERIOD: Within Thirty (30) calendar days
2. PLACE: UPV SPSO, Iloilo City campus
3. PRICE VALIDITY: 20 days
4. PAYMENT TERMS: 30 days

Faxed:
Date:
Time:

Personally Distributed:

Received by:
Signature over printed name
Date

/beth_2015-008
STUDENT INTERNET BANDWIDTH FOR UPV MIAGAO CAMPUS

Terms of Reference

Version 4.1
B. PROJECT OVERVIEW

The University of the Philippines Visayas (UPV) is an academic institution whose information requirements are at the most necessary in daily business operations. The information exchange among offices are normally transmitted using the information highway or the Internet because of the geographically separated campuses: Miagao, Tacloban City and Iloilo City campus. UPV also has satellite research centers in Taklong Island in Guimaras, Brackishwater Aquaculture Center in Leganes and Batan Mariculture Station in Aklan. The University is housing vital network components such as servers, routers, switches and other active entities of the network that require high-speed Internet connections in order to cater requests from internal and external entities to allow access public information from the institution’s website and databases.

B.1 PROJECT DEFINITION

The UP Visayas Information Technology Resources Acquisition Project seeks to establish an Information Technology (IT) solution to implement the Student Internet Bandwidth for the inter-connectivity at UPV Miagao Campus.

B.2 SCOPE OF THE PROJECT

This project will cover the integrated supply, delivery, installation, testing and acceptance of the appropriate computing resources and the provision of professional IT services for the UP Visayas which include, but is not limited to, the following:

- Hardware, Software and Networking Products necessary to make the digital communications between the three campuses operational using the Internet connections;
  1. necessary equipment for connections (e.g. radio modems, Ethernet switches, converters, and the like depending on the implementation configurations); these are provided by the Internet Service Provider (ISP) for the site;
  2. physical connections using either fiber optic or copper data lines provided by the ISP for the site;
  3. Multi-Router-Traffic-Grapher (MRTG) site provided by ISP for each of the site;
    a. High-speed Internet connections for UPV Miagao Campus is 14Mbps Leased Line with fourteen (14) live IP address
  4. Other necessary network tools for monitoring the connections.
- System Integration and testing; and,
- Training / briefing of technical personnel of UPV

B.3 PROJECT ORGANIZATION

B.3.1 UP Visayas

The University of the Philippines Visayas (UPV) is one of the constituent universities (CUs) of the UP System. (The other CUs are UP Diliman, UP Manila, UP Los Banos, UP Open University, UP Mindanao, UP Baguio and one Autonomous Campus, UP Cebu College.) The impact of the strategic location of its three (3) campuses in two (2) regions is mainly on making accessible excellent education, significant research and relevant extension in these parts of the country.

In the wake of World War II, the entire country echoed with reconstruction as it rose from the ashes of destructions.

B.3.2 Mission Statement

To provide quality education, especially in the fisheries and aquatic sciences;

To inculcate values and nurture the Visayan cultural heritage; and

To lead in an advocacy role in the sustainable development of the Visayas Region and of the nation within the changing world order.

B.4 ENVISIONED COMPUTING SCENARIO

UP Visayas has existing computing environment and the network infrastructures and computer systems are already established. The development of other system applications are ongoing. The necessary entity for the University is the Internet connections between the three (3) campuses – Miagao, Iloilo City and Tacloban City - that will be use as media for transmitting information between geographically separated campuses / sites.

In addition to the above, the following desirable features are also envisioned:

- Easy, fast and reliable access and retrieval of data/information

UP Visayas would have the facility to easily access and retrieve up-to-date information at any point in time or whenever necessary. However, these would have to be imposed along with a robust system security control integrated within the Internet connectivity of each campus.
- **Enhanced security controls**

Control mechanisms would be strictly applied to effectively restrict those who are not authorized to access the strategic systems and databases. These system security measures would be accompanied by effective manual procedures.

- **Flexible information systems responsive to operation changes**

Information systems to be developed for the *UP Visayas* would be responsive not only to its current system needs but also to possible future needs. Applications would be easily enhanced and modified to support additional product lines or functional responsibilities brought about by these changes.

- **Sustainability and system maintainability**

The computing scenario envisioned for the *UP Visayas* would be sustainable. Sustaining the systems and technology implies continuous maintenance of the technology and the running systems. Ease of maintenance would cover the hardware, application systems, and network management system. The hardware and network technology would include features that allow quick troubleshooting, remote diagnosis and repair.

The following is an illustration of the conceptual configuration of the *UP Visayas* Information System using the selected ISP for inter-connections.

Each of the three sites is housing necessary servers for various information systems, systems, databases, and other pertaining systems that are necessary for the exchange of information and communications among the three campuses. The
information exchange between the three sites are transmitted via the link provided by
by the selected ISP for each campus.

B.5 IMPLEMENTATION SCHEDULE

The project would be undertaken for a period of one (1) year. Shown below is
an implementation schedule.

C. BID REQUIREMENTS

C.1 TECHNICAL REQUIREMENTS

C.1.1 Information System / Project Description

The project is the provision of STUDENT INTERNET BANDWIDTH for
UPV Miagao Campus.

Upstream/Downstream bandwidth (bandwidth figures should be
provisioned and guaranteed from point of interconnection to an upstream
Internet service
UPV Miagao Campus 14 mbps Leased Line with fourteen (14) live IP
Address

It shall be up to the bidder to provide appropriate and cost-effective
access to the offered service. Some of the possible options include, but are
not limited to, leased circuits via copper or fiber, point to point microwave,
satellite based access (duplex or simplex + lease line uplink), cable based
access, DSL or others. For purposes of this bid, the bidder may partner with a
carrier, telco or other service providers of its choice and provide these facilities
with the Internet and VPN capable service. If the access technology requires
permits or licensing, the bidder shall secure the necessary permits or licenses
for the University.

Provisioned channels should not apply any filtering on inbound or
outbound streams except in cases where the source IP addresses emanating
from UPV’s side are incorrect, or in related cases only to ensure network
security. The University and the selected ISP shall agree on reasonable filters
that shall be imposed in this respect. No content filtering of any kind shall be
imposed.

No proxy servers shall be positioned within the clear channels
provisioned under this bid, except as may be mutually agreed upon between
the University and the selected ISP.

The selected ISP agrees to ensure the security and privacy of the
University’s information streams to the extent possible.
The selected ISP agrees to provide routing services to the University, such that:

- Traffic destined for locally-peered ISPs shall not be routed through the dedicated Internet path, but rather through the ISP's local backbone.
- The University's IP block(s) and AS number(s) will be advertised to the Internet through the ISP's routers, and BGP reachability shall be provided, if possible/allowable.

The selected ISP agrees to provide a network management interface, accessible to the University, which will allow the latter to monitor compliance with bandwidth agreements. If the provisioned channels pass through multiple router hops, monitoring shall be provided on each of these router hops. An MRTG web page will be sufficient for this purpose.

The selected ISP agrees to provide 7 x 24 on-call technical support for problems relating to the services contracted herein.

The selected ISP agrees to provide contact information for trouble escalation and must have a physical response time of not more than four (4) hours.

The selected ISP shall guarantee that their Internet network is available, at the minimum, 99% of the time.

The selected ISP shall agree to provide a physical space for co-location of servers of the UNIVERSITY to provide an access of 24/7 worldwide.

The selected ISP will allow BGP peering to advertise AS number (132792) and UPV assigned IP address (202.92.152.0/24) thru full-routing.

The selected ISP agrees to keep the CNAME records of the UNIVERSITY to serve as SLAVE DNS that will function as the UNIVERSITY’s secondary DNS (non-authoritative).

Internet Service Provider (ISP) Requirements

1. The Wide Area Communication link of the ISP shall support multi-protocol application.

2. Provide latency at 25% load from the ISP’s “edge” router to provider’s router in the US.

3. The bidder shall have a complete layer 1 and 2 redundancy on all metro and provincial nodes directly affecting the UPV Miagao Campus connection.

4. Must be able to provide backup link to the main link, which could be in any form provided that the upstream/downstream bandwidth shall not be lower than that of the main link.

5. The bidder, at its sole option, may introduce value-added services to the proposal such as free dial-up accounts or wireless access points that can
be used by the University. However, it is clear and acceptable to the bidder the fact that the University reserves all the rights to determine if it will be included or not in the evaluation of the bidder’s proposal.

Demonstration Requirements

The University requires a 15-day demonstration of the services offered by the selected ISP in the campus/site, for purposes of confirming the features and facilities offered by the bidder, as a precondition for final acceptance and award. If the offered service is rejected by the University for reasons of non-compliance with the technical requirements, there shall be no cost to the University. If accepted, the 15-day demonstration period shall be considered outside of the billable service.

C.1.2 Architectural Configuration

Hardware

The necessary hardware for the Internet connection will be determined by the selected ISP for the UPV Miagao Campus site.

Network

It is of paramount importance to UP Visayas that the equipment and software to be proposed be able to provide a coherent, compatible and interoperable processing environment and enable the effective networking of the system’s computing facilities.

The contractor must be able to provide networking facilities that will support the hardware configuration as well as necessary peripherals and accessories that are:

- Compliant with Open Systems Standards
- Structured/Modular
- Multi-protocol capability
- Multi-media capability
- Easy administration
- Clean transportation of data
- Security facilities
- Error detection, correction and reporting
- Comprehensive network management facilities
- Performance monitoring facilities

The network and cabling requirement needed must have the following indicative features:
• Must be able to address the networking demands of UP Visayas
• Must be capable of high speed data block transfers
• Must allow efficient network administration and security
• Must be open for future expansions and upgrade
• Must be fail-safe and highly secured
• Must have minimum or no downtime
• Modular cabling installation is highly preferred

Network Security
The risk of transaction disruption in the implementation of the Information System is one of the concerns of the Bidder. The security required must be capable of real time detection and prevention of attackers from exploiting operating system and application vulnerabilities. In addition, the security devices and software must also filter and monitor traffic and with anti-spam capabilities.

• Must support for broadband connection to ISP
• Must support for narrow band connection (dial-in access)
• Must support Cryptographic Accelerator, Anti-Intrusion System
• Must support integration with clustered configuration for Redundant connection to ISP)
• Must support failure detection for physical link, pinging to hop and hosts on the Internet
• Must support dynamic load sharing for outbound traffic and built-in DNS proxy for redundancy and load sharing for incoming connections

C.1.3 Systems Integration and Testing

The project contractor must provide total systems integration to ensure exchange of information and sharing of resources. Hardware, software, network, databases and application /information systems must be fully integrated.

C.1.4 Maintenance and Support Plan

The bidder must include in its Maintenance and Support Plan, among others, the following information:

• Staffing plan
• Number of Support Staff
• Location and Operational Processes
• Minimum Service Levels

Change Management
Bidders must include in their proposal their change management plan. The plan must deal with specific action required to reduce and/or eliminate resistance from the users in sharing of their resources, participation in the development of the Information Systems, among others.

C.2 PROJECT COST REQUIREMENT

The project is estimated to cost Nine Hundred Thousand pesos (PhP 900,000.00), details of which are indicated below:

<table>
<thead>
<tr>
<th>CAMPUS / SITE</th>
<th>Bandwidth</th>
<th>Cost/Month</th>
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<tr>
<td>UPV Miagao Campus</td>
<td>20 mbps Leased Line with fourteen (14) live IP Address</td>
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Cost/year: 900,000.00

D. PROJECT GUIDELINES

D.1 PROJECT MANAGEMENT

Project direction shall be done by the Data and Information Systems Program (DISP). All technical designs, specifications, or recommendations shall be subject to review by the DISP. Should there be any disagreement, the Computerization Committee shall have final say on the matter.

D.2 EXISTING RESOURCES

UP Visayas has all of the necessary servers in each campus, and the University has existing Internet bandwidths provided by selected ISP in UPV Miagao Campus site.

D.3 SITE PREPARATION

Site preparation shall be performed on campus. The development area shall be located on the designated venue in the campus. The server shall be placed at the server room in Villadolid Building Miagao Campus.

Network Administration shall be performed by DISP technical personnel in Miagao Campus.

D.4 INSTALLATION AND DELIVERY

Deadline for the delivery of products shall be determined upon awarding of the contract.
CORE INTERNET BANDWIDTH FOR UPV ILOILO CITY CAMPUS

Terms of Reference

Version 4.1

UNIVERSITY OF THE PHILIPPINES VISAYAS
B. PROJECT OVERVIEW

The University of the Philippines Visayas (UPV) is an academic institution whose information requirements are the most necessary in daily business operations. The information exchange among offices are normally transmitted using the information highway or the Internet because of the geographically separated campuses: Miagao, Tacloban City and Iloilo City. UPV has satellite research centers in Taklong Island in Guimaras, Brackishwater Aquaculture Center in Leganes and Batan Mariculture Station in Aklan. The University is housing vital network components such as servers, routers, switches and other active entities of the network that require high-speed Internet connections in order to cater requests from internal and external entities to allow access public information from the institution's website and databases.

B.1 PROJECT DEFINITION

The UP Visayas Information Technology Resources Acquisition Project seeks to establish an Information Technology (IT) solution to implement the Core Internet Bandwidth for the inter-connectivity at UPV Iloilo City Campus.

B.2 SCOPE OF THE PROJECT

This project will cover the integrated supply, delivery, installation, testing and acceptance of the appropriate computing resources and the provision of professional IT services for the UP Visayas which include, but is not limited to, the following:

- Hardware, Software and Networking Products necessary to make the digital communications between the three campuses operational using the Internet connections;
  1. necessary equipment for connections (e.g. radio modems, Ethernet switches, converters, and the like depending on the implementation configurations); these are provided by the Internet Service Provider (ISP) for the site;
  2. physical connections using either fiber optic or copper data lines provided by the ISP for the site;
  3. Multi-Router-Traffic-Grapher (MRTG) site provided by ISP for each of the site;
     a. High-speed Internet connections for Iloilo City Campus is 10mbps Business DSL with six (6) live IP address
4. Other necessary network tools for monitoring the connections.

- System integration and testing; and
- Training / briefing of technical personnel of UPV

B.3 PROJECT ORGANIZATION

B.3.1 UP Visayas

The University of the Philippines Visayas (UPV) is one of the constituent universities (CUs) of the UP System. The others are UP Diliman, UP Manila, UP Los Banos, UP Open University, UP Mindanao, UP Baguio and one Autonomous Campus, UP Cebu College. The impact of the strategic location of its three (3) campuses in two (2) regions is mainly on making accessible excellent education, significant research and relevant extension in these parts of the country.

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To inculcate values and nurture the Visayan cultural heritage; and

To lead in an advocacy role in the sustainable development of the Visayas Region and of the nation within the changing world order.

B.4 ENVISIONED COMPUTING SCENARIO

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In addition, the following desirable features are also envisioned:

- Easy, fast and reliable access and retrieval of data/information
**UP Visayas** would have the facility to easily access and retrieve up-to-date information at any point in time or whenever necessary. However, these would have to be imposed along with a robust system security control integrated within the Internet connectivity of each campus.

- **Enhanced security controls**

  Control mechanisms would be strictly applied to effectively restrict those who are not authorized to access the strategic systems and databases. These system security measures would be accompanied by effective manual procedures.

- **Flexible information systems responsive to operation changes**

  Information systems to be developed for the **UP Visayas** would be responsive not only to its current system needs but also to possible future needs. Applications would be easily enhanced and modified to support additional product lines or functional responsibilities brought about by these changes.

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  The computing scenario envisioned for the **UP Visayas** would be sustainable. Sustaining the systems and technology implies continuous maintenance of the technology and the running systems. Ease of maintenance would cover the hardware, application systems, and network management system. The hardware and network technology would include features that allow quick troubleshooting, remote diagnosis and repair.

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Each of the three sites is housing necessary servers for various information systems, databases, and other pertaining systems that are necessary for the exchange of information and communications among the three campuses. The information exchange between the three sites are transmitted via the link provided by the selected ISP for each campus.

B.5 IMPLEMENTATION SCHEDULE

The project would be undertaken for a period of one (1) year.

C. BID REQUIREMENT

C.1 TECHNICAL REQUIREMENTS

C.1.1 Information System / Project Description

1. The project is the provision of CORE INTERNET BANDWIDTH for UPV Iloilo City Campus.

2. Downstream bandwidth (bandwidth figures should be provisioned and guaranteed from point of interconnection to an upstream Internet service provider):

   Iloilo City Campus 10mbps Business DSL with six (10) live IP Address
3. It shall be up to the bidder to provide appropriate and cost-effective access to the offered service. Some of the possible options include, but are not limited to, leased circuits via copper or fiber, point to point microwave, satellite based access (duplex or simplex + lease line uplink), cable based access, DSL or others. For purposes of this bid, the bidder may partner with a carrier, telco or other service providers of its choice and provide these facilities with the Internet and VPN capable service. If the access technology requires permits or licensing, the bidder shall secure the necessary permits or licenses for the University.

4. Provisioned channels should not apply any filtering on inbound or outbound streams except in cases where the source IP addresses emanating from UPV's side are incorrect, or in related cases only to ensure network security. The University and the selected ISP shall agree on reasonable filters that shall be imposed in this respect. No content filtering of any kind shall be imposed.

5. No proxy servers shall be positioned within the clear channels provisioned under this bid, except as may be mutually agreed upon between the University and the selected ISP.

6. The selected ISP agrees to ensure the security and privacy of the University’s information streams to the extent possible.

7. The selected ISP agrees to provide routing services to the University, such that:
   - Traffic destined for locally-peered ISPs shall not be routed through the dedicated Internet path, but rather through the ISP's local backbone.

8. The selected ISP agrees to provide a network management interface, accessible to the University, which will allow the latter to monitor compliance with bandwidth agreements. If the provisioned channels pass through multiple router hops, monitoring shall be provided on each of these router hops. An MRTG web page will be sufficient for this purpose.

9. The selected ISP agrees to provide 7 x 24 on-call technical support for problems relating to the services contracted herein.

10. The selected ISP agrees to provide contact information for trouble escalation and must have a physical response time of not more than four (4) hours.

11. The selected ISP shall guarantee that their Internet network is available, at the minimum, 99% of the time.
12. The selected ISP shall agrees to provide a physical space for co-location of servers of the UNIVERSITY to provide an access of 24/7 worldwide.

13. The selected ISP agrees to keep the CNAME records of the UNIVERSITY to serve as SLAVE DNS that will function as the UNIVERSITY’s secondary DNS (non-authoritative).

Internet Service Provider (ISP) Requirements

1. The Wide Area Communication link of the ISP shall support multi-protocol application.

2. Provide latency at 25% load from the ISP’s “edge” router to provider’s router in the US.

3. The bidder shall have a complete layer 1 and 2 redundancy on all metro and provincial nodes directly affecting the Iloilo City Campus connection.

4. Must be able to provide backup link to the main link, which could be in any form provided that the upstream/downstream bandwidth shall not be lower than that of the main link.

5. The bidder, at its sole option, may introduce value-added services to the proposal such as free dial-up accounts or wireless access points that can be used by the University. However, it is clear and acceptable to the bidder the fact that the University reserves all the rights to determine if it will be included or not in the evaluation of the bidder’s proposal.

Demonstration Requirements

The University requires a 15-day demonstration of the services offered by the selected ISP in the campus/site, for purposes of confirming the features and facilities offered by the bidder, as a precondition for final acceptance and award. If the offered service is rejected by the University for reasons of non-compliance with the technical requirements, there shall be no cost to the University. If accepted, the 15-day demonstration period shall be considered outside of the billable service.

C.1.2 Architectural Configuration

Hardware
The necessary hardware for the Internet connection will be determined by the selected ISP for the Iloilo City Campus site.

**Network**

It is of paramount importance to UP Visayas that the equipment and software to be proposed be able to provide a coherent, compatible and interoperable processing environment and enable the effective networking of the system's computing facilities.

The contractor must be able to provide networking facilities that will support the hardware configuration as well as necessary peripherals and accessories that are provided:

- Compliant with Open Systems Standards
- Structured/Modular
- Multi-protocol capability
- Multi-media capability
- Easy administration
- Clean transportation of data
- Security facilities
- Error detection, correction and reporting
- Comprehensive network management facilities
- Performance monitoring facilities

The network and cabling requirement needed must have the following indicative features:

- Must be able to address the networking demands of UP Visayas
- Must be capable of high speed data block transfers
- Must allow efficient network administration and security
- Must be open for future expansions and upgrade
- Must be fail-safe and highly secured
- Must have minimum or no downtime
- Modular cabling installation is highly preferred

**Network Security**
The risk of transaction disruption in the implementation of the Information System is one of the concerns of the Bidder. The security required must be capable of real time detection and prevention of attackers from exploiting operating system and application vulnerabilities. In addition, the security devices and software must also filter and monitor traffic and with anti-spam capabilities.

- Must support for broadband connection to ISP
- Must support for narrow band connection (dial-in access)
- Must support Cryptographic Accelerator, Anti-Intrusion System
- Must support integration with clustered configuration for Redundant connection to ISP)
- Must support failure detection for physical link, pinging to hop and hosts on the Internet
- Must support dynamic load sharing for outbound traffic and built-in DNS proxy for redundancy and load sharing for incoming connections

C.1.3 Systems Integration and Testing

The project contractor must provide total systems integration to ensure exchange of information and sharing of resources. Hardware, software, network, databases and application information systems must be fully integrated.

C.1.4 Maintenance and Support Plan

The bidder must include in its Maintenance and Support Plan, among others, the following information:

- Staffing plan
- Number of Support Staff
- Location and Operational Processes
- Minimum Service Levels

Change Management

Bidders must include in their proposal their change management plan. The plan must deal with specific action required to reduce
and/or eliminate resistance from the users in sharing of their resources, participation in the development of the Information Systems, among others.

C.2 PROJECT COST REQUIREMENT

The project is estimated to cost One Hundred Ninety One Thousand and Nine Hundred Eighty Eight Pesos (PhP 191,988.00), details of which are indicated below:

<table>
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<tr>
<th>CAMPUS / SITE</th>
<th>Bandwidth</th>
<th>Cost/Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iloilo City Campus</td>
<td>10 mbps Business DSL with six (6) live IP Address</td>
<td>15,999.00</td>
</tr>
</tbody>
</table>

Cost/year: 191,988.00

D. PROJECT GUIDELINES

D.1 PROJECT MANAGEMENT

Project direction shall be done by the Data and Information Systems Program (DISP). All technical designs, specifications, or recommendations shall be subject to review by the DISP. Should there be any disagreement, the DISP shall have the final say on the matter.

D.2 EXISTING RESOURCES

UP Visayas has all of the necessary servers in each campus; and the University has existing Internet bandwidths provided by selected ISP in Iloilo City Campus.

D.3 SITE PREPARATION

Site preparation shall be performed on campus. The development area shall be located on the designated venue in the campus. The server shall be placed at the server room in GCEB Building Iloilo City Campus.
Network Administration shall be performed by DISP technical personnel in Miagao Campus.

D.4 INSTALLATION AND DELIVERY

Deadline for the delivery of products shall be determined upon awarding of the contract.

The contractor shall guarantee the delivery of the product within the specified period of delivery. The bidder further warrants that the product supplied are free from defect due to design or workmanship for at least a period of one year from date of acceptance by the technical committee. The system and all subsystems should be free from any apparent defects or bugs prior to acceptance. System acceptance would be made by proponent in concurrence with the UP Visayas.