

**CONTRACT FOR THE BIDDING OF ONE (1) LOT DATA DE-DUPPLICATION  
CAPACITY ENHANCEMENTS**

14 MAY 2015

**THIS AGREEMENT** made on the \_\_\_\_ day of \_\_\_\_ 2015 between **PHILIPPINE HEALTH INSURANCE CORPORATION**, a government owned and controlled corporation created and existing by virtue of R.A. 7875, otherwise known as the "National Health Insurance Act of 1995", with office address at 18th Floor, City State Center Building, 709 Shaw Blvd corner Oranbo Drive, Pasig City, represented herein by its **OIC-Chief Information Officer, CYNTHIA D. CORVITE**, (hereinafter called "**PHILHEALTH**").

-and-

**SANDZ SOLUTIONS PHILIPPINES, INC.**, a stock corporation, organized and registered with the Securities and Exchange Commission under Sec. Reg. No. A200016079, issued on April 16, 2002, and existing under the laws of the Republic of the Philippines, with business address at 6/flr. CYA Bldg. 110 Rada St. Legaspi Village, Makati City, represented herein by its **Managing Director, ENRIQUE G. VELASCO**, (hereinafter called "**SANDZ**").

**WHEREAS, PHILHEALTH** invited Bids for the **Bidding on the Procurement of One (1) Lot Data De-Duplication Capacity Enhancements** and has accepted a Bid by **SANDZ SOLUTIONS PHILS., INC.** for the supply of those goods in the sum of, **EIGHT MILLION NINE HUNDRED SIXTY EIGHT THOUSAND EIGHT HUNDRED EIGHTY PESOS (PhP8,968,880.00)** (hereinafter called "**the Contract Price**").

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - (a) SANDZ's Schedule of Requirements (**Annex "A"**);
  - (b) SANDZ's Bid Form (**Annex "B"**);
  - (c) SANDZ's Technical Proposal and its Appendices (**Annex "C"**);
  - (d) Notice of Award (**Annex "D"**);
  - (e) BAC-ITR Resolution No. 07, s. 2015 (**Annex "E"**);
  - (f) General Conditions of the Contract (GCC) (**Annex "F"**);
  - (g) Special Conditions of the Contract (SCC) (**Annex "G"**);
  - (h) Bid Bulletin (**Annex "H"**); and
  - (i) Performance Security (**Annex "I"**).
3. In consideration of the payments to be made by **PHILHEALTH** to **SANDZ** as hereinafter mentioned, **SANDZ** hereby covenants with **PHILHEALTH** to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract;
4. **PHILHEALTH** hereby covenants to pay **SANDZ** in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the time and in the manner prescribed by the contract;
5. The contract price covers the costs of all Deliverable Items and Services and includes all applicable taxes, including the 12% Value Added Tax (VAT), customs duties, license fees, freight, insurance, cost of importation and delivery at the time and locations specified and other charges which may be imposed on the Product by foreign and local authorities;

6. **SANDZ** hereby covenants to deliver in favor of **PHILHEALTH** the **One (1) Lot Data De-Duplication Capacity Enhancements** and the services related thereto, in accordance with the technical specifications as stated in attached Annexes of this Contract;
7. **Within Sixty (60) Calendar Days** after complete delivery to and acceptance by **PHILHEALTH**, **SANDZ** shall submit the **STATEMENT OF BILLING ACCOUNT** and other documentary requirements as may be required by the former as condition for payment. **PHILHEALTH** shall thereafter pay the sum of **Eight Million Seventy One Thousand Nine Hundred Ninety Two Pesos (PhP8,071,992.00)** only, which is ninety percent (90%) of the total contract price;

As obligation for the warranty, **PHILHEALTH** shall withhold **ten percent (10%) of the total contract price** as **retention money** or as obligation for "**Warranty**" in an amount equivalent to **Eight Hundred Ninety Six Thousand Eight Hundred Eighty Eight Pesos (PhP896,888.00)** only. Said amount shall only be released after the lapse of the **Three (3) year warranty period** for non-expendable supplies as required under Section 62 (Warranty) of the Revised IRR of R.A. 9184 . Provided, however, that the goods supplied are free from patent and latent defects and all the conditions imposed under this Contract have been fully met. Provided further, that **SANDZ** may opt to post a **special bank guarantee** equivalent to at least ten percent (10%) of the total contract price. The said special bank guarantee must have a **validity period of three (3) years** covering the whole duration of the warranty period;

8. The contracting parties undertake to comply with Office Order No. 0018-2015 entitled "Reiteration of PhilHealth No Gift Policy Revision (1)" which is deemed incorporated into this contract. No PhilHealth personnel shall solicit, demand, or accept, directly or indirectly, any gift from any person, group, association, or juridical entity, whether from the public or private sector, at anytime, on or off the work premises where such gift is given in the course of official duties or in connection with any transaction which may affect the functions of their office or influence the actions of directors or employees, or create the appearance of a conflict of interest;
9. All other terms, conditions and stipulations accompanying this Contract together with all proposals and all mandatory provisions of the Revised Implementing Rules and Regulations of R.A. 9184, shall form an integral part of the contract between the PARTIES hereto;


The PARTIES hereby certify that they have read or caused to be read to them each and every provision of the foregoing Contract and that they had fully understood the same.

**IN WITNESS** whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.


**PHILIPPINE HEALTH INSURANCE CORPORATION**

**SANDZ SOLUTIONS PHILS., INC.**

  
**CYNTHIA D. CORVITE**  
OIC-Chief Information Officer  
Information Management Sector

  
**ENRIQUE G. VELASCO**  
Managing Director

Signed in the presence of:

  
**SVP EDGAR JULIO S. ASUNCION**  
Chief Legal Executive

**JUVY D. BALOLONG**  
Fiscal Controller IV,  
OIC-Accounting and Internal Control Division  
Comptrollership Department

ROF # 04

CRP # 201

  
Witness for **SANDZ**

  
Witness for **SANDZ**

### ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES)  
CITY OF CITY OF MAKATI S.S.

**MAY 14 2015**

**BEFORE ME**, this \_\_\_ day of \_\_\_\_\_ 2015, personally appeared the following persons exhibiting to me their respective Government issued ID's, to wit:

**CYNTHIA D. CORVITE**  
Philippine Health Insurance Corp.

PHILHEALTH I.D. # 10256508

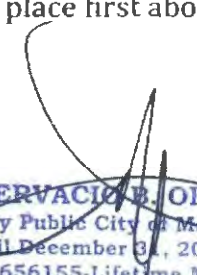
**ENRIQUE G. VELASCO**  
Sandz Solutions Phils., Inc.

Passport No. EC1301247

Known to me to be the same persons who executed the foregoing Contract Agreement consisting of **Fifty Four (54) pages** including the annexes and this page on which the acknowledgement is written and they acknowledged that the same is their free act and deed and that of the corporations being represented.

**WITNESS MY HAND AND SEAL** on the date and place first above written.

Doc No. 190  
Page No. 39  
Book No. XXVI  
Series of 2015

  
**ATTY. GERVACIO B. ORTIZ JR.**  
Notary Public City of Makati  
Until December 31, 2016  
IBP No. 656155-Lifetime Member  
MCLE Compliance No. III-0014282  
Appointment No. M-199 (2015-2016)  
PTR No. 4748512 Jan. 5, 2015  
Makati City Roll No. 40091  
101 Urban Ave, Campos Rueda Bldg.  
Brgy. Pig Del Pilar, Makati City

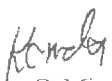
### Section VI. Schedule of Requirements

The delivery schedule expressed as days/weeks/months stipulated hereafter a delivery date which is the date of the delivery to the project site.

Item Number	Description	Quantity	Total	Delivered, Days/Weeks/Months
1	Data De-Duplication Capacity Enhancements	One (1) Lot	One (1) Lot	The <b>Delivery and Installation</b> shall be within <b>sixty (60) Calendar days</b> after the issuance and receipt of the winning bidder of the Notice to Proceed

I hereby certify to comply and deliver all the above requirements.

Sandr Solutions Philippines Inc.  
Name of Company/Bidder

  
Kristine C. Miranda  
Signature over Printed Name of Representative

January 21, 2015  
Date

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## Bid Form

Date: January 21, 2015  
 Invitation to Bid No.: ITB NO. 1DDCF 2014-009 I

**The Chairperson**  
 Bids and Awards Committee  
 PHILHEALTH

Gentlemen and/or Ladies:

I having examined the Bidding Documents including Bid Bulletin Numbers 1, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply/delivery/perform *One (1) Lot Data De-Duplication Capacity Enhancements* in conformity with the said Bidding Documents for the sum stated hereunder:

PARTICULARS	COST per Lot (Inclusive of VAT)	Total Cost (Inclusive of VAT)
One (1) Lot Data De-Duplication Capacity Enhancements  (please see attached detailed BOM)	Php 8,968,880.00	Php 8,968,880.00
<b>TOTAL</b> (In Words)		
EIGHT MILLION NINE HUNDRED SIXTY EIGHT THOUSAND, EIGHT HUNDRED EIGHTY PESOS ONLY		Php 8,968,880.00

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in BIDS provision for ITB Clause 18.2 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the lowest or any Bid you may receive.

We certify / confirm that we comply with the eligibility requirements as per ITB Clause 5 of the Bidding Documents.

*Handwritten signature:*  
 M. S. J. Jr.  
 M. S. J. Jr.

Dated this 21st day of January 2015.

Kristine C. Miranda  
[signature]

KRISTINE C. MIRANDA  
*in a capacity of*

Duly authorized to sign Bid for and on behalf of SANDZ SOLUTIONS PHILIPPINES, INC.

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## Section VII. Technical Specifications

SPECIFICATIONS	Statement of Compliance
<p><b>*Statement of Compliance – Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specifications and compliance issued by the manufacturer, samples independent test data, etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1 (a)(ii) and/or GCC 2.1 (a)(ii).</b></p>	
1. SCOPE OF THE PROJECT	Statement of Compliance*
<p>This project will cover the delivery, project management, installation, testing, maintenance, documentation, and support of the Data De-duplication and Disk Library. Specifically, the winning bidder shall provide the following deliverables.</p>	<p><b>Comply</b> - our proposed solution shall cover the delivery, project management, installation, testing, maintenance, documentation, and support of the Data De-duplication and Disk Library. Our proposed solution shall include the following deliverables.</p>
2. DELIVERABLES	
<ul style="list-style-type: none"> <li>• <b>Storage Capacity Expansion Modules for the existing Data De-duplication and Disk Library Appliances</b> <ul style="list-style-type: none"> <li>○ Must have at least two (2) x 16TB usable storage capacity expansion module</li> </ul> </li> </ul>	<p><b>Comply</b> – our proposed solution includes Storage Capacity Expansion Modules for the existing Data De-duplication and Disk Library Appliances. Refer to the below individual responses</p> <p><b>Comply</b> – our proposed solution includes two (2) x 16TB usable storage capacity expansion module</p> <p>Please see Appendix A, Bill of Materials (BOM)</p> <p>Please see Appendix F, DXi6700 Datasheet</p>



<ul style="list-style-type: none"> <li>○ Must have at least one (1) x 8TB useable storage capacity expansion module</li> </ul>	<p><b>Comply</b> – our proposed solution include one (1) x 8TB useable storage capacity expansion module</p> <p>Please see Appendix A, Bill of Materials (BOM)</p> <p>Please see Appendix F, DXi6700 Datasheet</p>
<ul style="list-style-type: none"> <li>○ Must have at least two (2) Conversion Kit modules to upgrade the two (2) existing de-duplication appliances to 10 Gigabit dual ports with SFP+ Optical 10G transceivers, Memory, and required licenses.</li> </ul>	<p><b>Comply</b> - our proposed solution includes two (2) Conversion Kit modules to upgrade the two (2) existing de-duplication appliances to 10 Gigabit dual ports with SFP+ Optical 10G transceivers, Memory, and required licenses.</p> <p>Please see Appendix A, Bill of Materials (BOM)</p> <p>Please see Appendix F, DXi6700 Datasheet</p>
<ul style="list-style-type: none"> <li>○ All modules must be 100% compatible with the existing de-duplication and disk library appliances</li> </ul>	<p><b>Comply</b> – the modules in our proposed solution are all 100% compatible with the existing de-duplication and disk library appliances of PhilHealth</p>
<ul style="list-style-type: none"> <li>○ Must have all the required licenses, cables, and accessories to integrate with the current network environment.</li> </ul>	<p><b>Comply</b> – our proposed solution includes all the required licenses, cables, and accessories to integrate with the current network environment of PhilHealth.</p>

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<p>• <b>One (1) Unit Linear Tape Open Generation 66 (LTO-6) Tape Drive (Tabletop)</b></p> <p><i>Bid Bulletin No. 1</i></p> <p><b>AMENDMENT / CLARIFICATION</b></p> <p><i>One (1) Unit Linear Tape Open Generation 6 (LTO-6) Tape Drive (Tabletop)</i></p> <ul style="list-style-type: none"> <li>○ Must have Interface: 6GB/sec SAS</li> <li>○ Must have Cartridge Capacity Native/Compressed (GB):2500/6250</li> <li>○ Must have Drive Throughput Native/Compressed (MB/sec):160/400</li> <li>○ Must have average File Access Time (sec):51 (FH), 56(HH)</li> </ul>	<p><b>Comply</b> – our proposed solution include one (1) Unit Linear Tape Open Generation 6 (LTO-6) Tape Drive (Tabletop).</p> <p>Please see Appendix A, Bill of Materials (BOM). Refer to the below individual responses for the specifications</p> <p><b>Comply</b> – our proposed solution includes support for 6GB/sec SAS interface, Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p> <p><b>Comply</b> – our proposed solution includes support for the following Cartridge Capacity Native/Compressed (GB):2500/6250, Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p> <p><b>Comply</b> – our proposed solution includes support for the following Drive Throughput Native/Compressed (MB/sec):160/400, Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p> <p><b>Comply</b> – our proposed solution has an average File Access Time (sec):51 (FH), 56(HH) for LTO5 onwards Please see Appendix C, LTO5 Tape Drive Data Sheet page 2</p>
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<ul style="list-style-type: none"> <li>○ Must have Interface Connector type: 6GB/s (SF8088)</li> </ul>	<p><b>Comply</b> – our proposed solution supports Interface Connector type: 6GB/s (SFF8088), Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p>
<ul style="list-style-type: none"> <li>○ Must have Burst Transfer Rate (MB/sec) SAS (max): 600</li> </ul>	<p><b>Comply</b> – our proposed solution supports Burst Transfer Rate (MB/sec) SAS (max): 600, Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p>
<ul style="list-style-type: none"> <li>○ Must have Data Buffer Size: 512MB</li> </ul>	<p><b>Comply</b> – our proposed solution supports Data Buffer Size: 512MB, Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p>
<ul style="list-style-type: none"> <li>○ Tape/Format Compatibility <ul style="list-style-type: none"> <li>➤ LTO-6 (read/write):2500GB native capacity</li> <li>➤ LTO-6 WORM (read/write):2500GB native capacity</li> </ul> </li> </ul>	<p><b>Comply</b> – our proposed solution supports the following tape/format compatibility</p> <ul style="list-style-type: none"> <li>- LTO-6 (read/write):2500GB native capacity</li> <li>LTO-6 WORM (read/write):2500GB native capacity</li> </ul> <p>Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p>
<ul style="list-style-type: none"> <li>○ Tape Format Specifications <ul style="list-style-type: none"> <li>➤ Format: LTO Ultrium 6</li> <li>➤ Recording Density: 15.143KB/mm</li> <li>➤ Encoding method: 16 Channel 32/33 RLL NPML</li> <li>➤ Data Compression: ALDC</li> </ul> </li> </ul>	<p><b>Comply</b> – our proposed solution supports the following Tape Format Specifications</p> <ul style="list-style-type: none"> <li>Format: LTO Ultrium 6</li> <li>- Recording Density: 15.143KB/mm</li> <li>Encoding method: 16 Channel 32/33 RLL NPML</li> </ul>

	<p>- Data Compression: ALDC</p> <p>Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p>
<ul style="list-style-type: none"> <li>○ Must have at least one (1) SAS card</li> </ul>	<p><b>Comply</b> – our proposed solution includes one (1) SAS card, Please see Appendix A, Bill of Materials (BOM).</p>
<ul style="list-style-type: none"> <li>○ Must have all the required accessories, cables, and licenses to successfully integrate with the existing network environment.</li> </ul>	<p><b>Comply</b> – our proposed solution includes all the required accessories, cables, and licenses to successfully integrate with the existing network environment of PhilHealth</p>
<ul style="list-style-type: none"> <li>• One Hundred (100) pcs. LTO 6 Tape Cartridges</li> </ul>	<p><b>Comply</b> – our proposed solution includes One Hundred (100) pcs. LTO 6 Tape Cartridges, Please see Appendix A, Bill of Materials (BOM).</p>
<ul style="list-style-type: none"> <li>○ Media: Ultrium 6</li> </ul>	<p><b>Comply</b> – our proposed solution supports Ultrium 6 Please see Appendix A, Bill of Materials (BOM). Please see Appendix D, LTO Ultrium Technical Specifications 1 page 2</p>
<ul style="list-style-type: none"> <li>○ Capacity (Native/Compressed): 2500/6250GB (Based on 2.5:1 compression)</li> </ul>	<p><b>Comply</b> – our proposed solution supports Capacity (Native/Compressed): 2500/6250GB (Based on 2.5:1 compression) Please see Appendix D, LTO Ultrium Technical Specifications 1 page 2</p>

<ul style="list-style-type: none"> <li>○ Number of Tracks: 1280</li> </ul>	<p><b>Comply</b> – our proposed solution supports Number of Tracks: 1280 for LTO5 onwards</p> <p>Please see Appendix E LTO Ultrium Technical Specifications 2 page 2</p>
<ul style="list-style-type: none"> <li>○ Durability: 20,000 load/unload cycles</li> </ul>	<p><b>Comply</b> – our proposed solution supports Durability: 20,000 load/unload cycles</p>
<ul style="list-style-type: none"> <li>○ Uses: Up to 260 full tape uses</li> </ul>	<p><b>Comply</b> – our proposed solution supports up to 260 full tape uses for LTO5 onwards</p> <p>Please see Appendix E LTO Ultrium Technical Specifications 2 page 2</p>
<ul style="list-style-type: none"> <li>○ Must include 100pcs. LTO 6 Barcode Labels</li> </ul>	<p><b>Comply</b> – our proposed solution includes One Hundred (100) pcs. LTO 6 Barcode Labels</p> <p>Please see Appendix A, Bill of Materials (BOM).</p>
<ul style="list-style-type: none"> <li>○ Must include 100pcs. LTO 5 Barcode Labels</li> </ul>	<p><b>Comply</b> – our proposed solution includes One Hundred (100) pcs. LTO 5 Barcode Labels</p> <p>Please see Appendix A, Bill of Materials (BOM).</p>
<ul style="list-style-type: none"> <li>○ Must be 100% compatible with the proposed LTO 6 tape drive</li> </ul>	<p><b>Comply</b> – our proposed solution is 100% compatible with the proposed LTO 6 tape drive</p> <p>Please see Appendix B, LTO6 Tape Drive Data Sheet page 2</p>

<p>Twenty (20) pcs. LTO Ultrium Universal Cleaning Cartridge</p> <ul style="list-style-type: none"> <li>○ Compatibility: All Ultrium LTO 1, LTO 2, LTO 3, LTO 4 and LTO 5 Drives</li> <li>○ Maximum 50 cleanings-drive dependent</li> </ul>	<p><b>Comply</b> – our proposed solution includes Twenty (20) pcs. LTO Ultrium Universal Cleaning Cartridge Please see Appendix A, Bill of Materials (BOM).</p> <p><b>Comply</b> - our proposed solution is compatible with All Ultrium LTO 1, LTO 2, LTO 3, LTO 4 and LTO 5 Drives Please see Appendix D LTO Ultrium Technical Specifications 1 page 2</p> <p><b>Comply</b> – our proposed solution supports a maximum of fifty(50) cleanings-drive dependent Please see Appendix D LTO Ultrium Technical Specifications 1 page 2</p>
<p><b>3. TECHNOLOGY TRANSFER</b></p>	
<p>The winning bidder must provide in-depth technical training for PhilHealth systems engineers who will be supporting the appliance. The training must focus on implementation, configuration and management of the components being offered and must include hands-on exercises. To validate the training's effectivity, the winning bidder must provide the training course listed below and must be conducted by an authorized testing center and certified trainer. All expenses that pertain to the said training should be shouldered by the winning bidder.</p>	<p><b>Comply</b> – our proposed solution shall provide in-depth technical training for PhilHealth systems engineers who will be supporting the appliance. The training shall focus on implementation, configuration and management of the components being offered and shall include hands-on exercises. To validate the training's effectivity, SANDZ shall provide the training course listed below and shall be conducted by an authorized testing center and certified trainer. All expenses that pertain to the said training shall be shouldered by SANDZ</p>

<table border="1"> <thead> <tr> <th>Course</th><th>Participants</th></tr> </thead> <tbody> <tr> <td>Data De-duplication and Disk Library Configuration and Management Workshop</td><td>3</td></tr> </tbody> </table>	Course	Participants	Data De-duplication and Disk Library Configuration and Management Workshop	3	<p>Please see Appendix A, Bill of Materials (BOM).</p> <p><b>Comply</b> – our proposed solution includes workshop for three (3) on Data De-duplication and Disk Library Configuration and Management</p> <p>Please see Appendix A, Bill of Materials (BOM).</p>
Course	Participants				
Data De-duplication and Disk Library Configuration and Management Workshop	3				
<p><b>4. INSTALLATION AND TESTING</b></p>					
<ul style="list-style-type: none"> <li>The winning bidder must ensure that the proposed equipment and all included components should be 100% compatible with the existing infrastructure of the corporation.</li> <li>Intensive testing should be done by the winning bidder together with PhilHealth I.T. personnel to achieve the functionality and benefits of the equipment and must provide an actual result of the testing upon installation.</li> </ul>	<p><b>Comply</b> – the proposed equipment and all included components of our solution are 100% compatible with the existing infrastructure of the corporation</p> <p><b>Comply</b> – our proposed solution includes intensive testing and shall be done by SANDZ Quantum together with PhilHealth's I.T. personnel to achieve the functionality and benefits of the equipment and shall include actual result of the testing upon installation</p>				
<p><b>5. MAINTENANCE/TECHNICAL SUPPORT</b></p>					
<ul style="list-style-type: none"> <li>During the warranty period, the vendor shall provide highly technical personnel to service all the equipment including its components/peripherals whenever hardware and/or any related problem should occur.</li> </ul>	<p><b>Comply</b> – During the warranty period, SANDZ and Quantum shall provide highly technical personnel to service all the equipment stated in this proposal, including its components/peripherals whenever hardware and/or</p>				

<ul style="list-style-type: none"> <li>On call support shall be available 24 hours a day, 7 days a week. A one (1) hour response from time of the call (through telephone call) shall be provided. Onsite support must have a response time of not more than 4 hours from the time of the call in cases when the phone support could not solve the problem.</li> </ul>	<p>any related problem should occur.</p> <p><b>Comply -</b> On call support shall be available to PhilHealth 24 hours a day, 7 days a week, with a one (1) hour response from time of the call (through telephone call) shall be provided. Onsite support shall have a response time of not more than 4 hours from the time of the call in cases when the phone support could not solve the problem.</p>
<ul style="list-style-type: none"> <li>On hardware repair, testing shall be done on-site to know the extent of the problem. All components beyond repair shall be replaced at no cost during the effectivity and conditions of the warranty. Service units should be available for the system and peripherals a day after testing and diagnosis for replacement of the defective unit(s).</li> </ul>	<p><b>Comply -</b> Our solution shall include the following on hardware repair - testing shall be done on-site to identify the extent of the problem. All components beyond repair shall be replaced at no cost to PhilHealth during the effectivity and conditions of the warranty. Service units shall be available for the system and peripherals a day after diagnostics and testing for replacement of the defective unit(s).</p>
<ul style="list-style-type: none"> <li>The winning bidder must provide expert personnel to service the proposed equipment whenever any related problem should occur.</li> </ul>	<p><b>Comply -</b> SANDZ and Quantum shall provide expert personnel to service the proposed equipment whenever any related problem should occur. Both SANDZ and Quantum have highly skilled certified technical personnel to provide services to all PhilHealth equipment included in our proposal</p>



<ul style="list-style-type: none"> <li>The winning bidder must shoulder all expenses of the technical person(s) who will be providing the technical services on-site.</li> </ul>	<p><b>Comply</b> – SANDZ shall shoulder all expenses of the technical person(s) who will be providing the technical services on-site, including all implementation related expenses for all technical persons involved in this project.</p>
<p><b>6. WARRANTY</b></p>	
<ul style="list-style-type: none"> <li>The equipment should be covered by warranty on all parts, components, software and services for at least three (3) years. The warranty period for the hardware supplied shall commence upon acceptance.</li> <li>The winning bidder must ensure that PhilHealth would be given the following: <ul style="list-style-type: none"> <li>Regular firmware updates, software patches, driver updates and agents for the management software – FREE (via www or CD)</li> <li>Parts replacement – FREE for the duration of the warranty period.</li> <li>Preventive Maintenance – FREE at least twice a year for the duration of the warranty period.</li> </ul> </li> </ul>	<p><b>Comply</b> – our solution shall include equipment covered by warranty on all parts, components, software and services for at least three (3) years. The warranty period for the hardware supplied shall commence upon acceptance by PhilHealth.</p> <p><b>Comply</b> – our solution shall ensure that the following will be given to PhilHealth for free</p> <p><b>Comply</b> – Our solution shall include regular firmware updates, software upgrades, software patches, driver updates and agents for the management software, all free of charge for the duration of the warranty period.</p> <p><b>Comply</b> – Our solution shall include parts replacement – FREE of charge to PhilHealth for the duration of the warranty period</p> <p><b>Comply</b> – Our solution shall include Preventive Maintenance – FREE of charge at least twice a year for the duration of the warranty period.</p>



<ul style="list-style-type: none"> <li>○ Configuration – FREE assistance on equipment reconfiguration (on-site) for the duration of the warranty period.</li> <li>• The winning bidder must also provide at least one (1) year maintenance that includes services and parts of the existing tape library including the tape drives that commence upon acceptance of the project. <i>(The existing tape library is Quantum Scalar i500)</i></li> <li>• The winning bidder must also provide warranty for the existing two (2) x Data De-duplication Appliances for 3 years that co-exist with the proposed storage expansion modules.</li> </ul>	<p><b>Comply</b> – Our solution shall include assistance, free of charge, on equipment reconfiguration, software upgrade on-site, for the duration of the warranty period.</p> <p><b>Comply</b> – Our proposed solution include one (1) year maintenance that includes services and parts of the existing tape library (Quantum Scalar i500) including the tape drives that commence upon acceptance of the project</p> <p><b>Comply</b> – Our proposed solution shall include warranty for the existing two (2) x Data De-duplication Appliances for 3 years that co-exist with the proposed storage expansion modules</p>
<p><b>7. AVAILABILITY</b></p>	
<ul style="list-style-type: none"> <li>• Hardware components that cannot be repaired must be provided with a service unit.</li> </ul>	<p><b>Comply</b> – For hardware components that cannot be repaired, Our solution shall provide PhilHealth with a service unit. Service unit and/or replacement parts shall be available at all times, within the warranty period.</p>
<p><b>8. DOCUMENTATION</b></p>	
<p>The winning bidder must provide user and system manuals and technical materials of the Data De-duplication and Disk Library including all components. Complete documentation of hardware, software, utility and CDs must be provided including the inventory of components and serial numbers.</p>	<p><b>Comply</b> – We shall provide user and system manuals and technical materials for the Data De duplication and Disk Library project including all components. We shall provide complete</p>

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	documentation of hardware, software, utility and CDs, including the inventory of components and serial numbers.
<b>9. OTHER REQUIREMENTS</b>	
<ul style="list-style-type: none"> <li>The winning bidder must provide certification that they are certified reseller or partner of the proposed equipment from the manufacturer.</li> </ul>	<p><b>Comply</b> We shall provide certification that SANDZ is a certified reseller or partner of the proposed equipment from Quantum.</p> <p>Please refer to Manufacturer's Certificate Tab</p>
<ul style="list-style-type: none"> <li>The winning bidder must provide certification that they are certified technical service support provider of the proposed equipment from manufacturer.</li> </ul>	<p><b>Comply</b> - We shall provide certification that SANDZ is a certified technical service support provider of the proposed equipment from Quantum.</p> <p>Please refer to Manufacturer's Certificate Tab</p>
<b>10. ACCEPTANCE</b>	
PhilHealth technical personnel must review and conduct a physical testing of the delivered equipment based on its functions. All deliverables mentioned above should be checked by PhilHealth and complied by the winning bidder before the final acceptance and turn over of the project.	<p><b>Comply</b> - We shall assist PhilHealth technical personnel who will review and conduct physical and functional testing of the delivered equipment based on its functions. We shall also provide intensive testing together with PhilHealth technical personnel based on the agreed test criteria before the final acceptance and turnover of the project.</p> <p>We shall have PhilHealth personnel check the mentioned deliverables above before final acceptance and turnover of the project. SANDZ shall provide an</p>

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	acceptance criteria for PhilHealth personnel as a basis of final acceptance.
<b>11. DELIVERY ADDRESSES AND DATE</b>	
<p>The winning bidder must deliver and install the IT equipment not more than sixty (60) days after the effective date of the contract or the issuance of the Notice to Proceed (NTP). All IT equipment must be delivered at 15<sup>th</sup> floor Room 1503 CityState Centre Building, 709 Shaw Blvd., Pasig City.</p> <p><i>Bid Bulletin No. 1</i></p> <p><b>AMENDMENT / CLARIFICATION</b></p> <p><i>The winning bidder must deliver and install the IT equipment not more than sixty (60) days after the effective date of the contract or the issuance of the Notice to Proceed (NTP). <u>All IT equipment must be delivered at 15<sup>th</sup> floor Room 1503 CityState Centre Building, 709 Shaw Blvd., Pasig City and Comclark Data Center Bldg. 7509 A. Bonifacio Ave. Clark Freeport Zone, Clarkfield Pampanga</u></i></p>	<p><b>Comply</b> - We shall comply on the agreed delivery and installation timeline of not more than sixty (60) days after the effective date of the contract or the issuance of the Notice to Proceed (NTP). All IT equipment will be delivered at 15<sup>th</sup> floor Room 1503 CityState Centre Building, 709 Shaw Blvd., Pasig City and Comclark Data Center Bldg. 7509 A. Bonifacio Ave. Clark Freeport Zone, Clarkfield Pampanga</p>

I hereby certify to comply with all the above Technical Specifications

Sandz Solutions Philippines, Inc  
Name of Company/Bidder

  
Kristine C. Miranda  
Signature over Printed Name of  
Representative

January 21, 2015  
Date

**BILL OF MATERIALS****One (1) Lot Data De-Duplication Capacity Enhancements**

Part Number	Product Description	Qty
<b>Production</b>	<b>DXi6700 DeDuplication Enabled Virtual Tape Library</b>	
	<b>Upgrade to 24TB. Comes with installation and maintenance to coexist with existing system.</b>  <b>End Date: Feb. 24, 2018</b>	
DDY67-UCND-000E	Quantum DXi6701 to DXi6702 Conversion Kit with SFP+Optical 10GbE, field upgrade	1
DDY67-UDEX-016A	Quantum DXi6701 and DXi6702, Expansion Module 16TB usable capacity with 2TB drives, field upgrades	1
DDY67-UDEX-008A	Quantum DXi6701 and DXi6702, Expansion Module 8TB usable capacity, field upgrades	1
<b>DR</b>	<b>DXi6700 Deduplication Enabled Virtual Tape Library</b>	
	<b>Upgrade to 16TB. Comes with installation and maintenance to coexist with existing system.</b>  <b>End Date: Feb. 24, 2018</b>	
DDY67-UCND-000E	Quantum DXi6701 to DXi6702 Conversion Kit with SFP+Optical 10GbE, field upgrade	1
DDY67-UDEX-016A	Quantum DXi6701 and DXi6702, Expansion Module 16TB usable capacity with 2TB drives, field upgrades	1
TC-L62BN-EM	Quantum LTO-6 Tape Drive, Half Height, Tabletop, Media and SAS HBA Bundle, 6Gb/s SAS, Black	1
	<b>Accessories</b>	
MR-L6MQN-01	Quantum data cartridge, LTO Ultrium 6 (LTO-6). Must order in multiples of 20.	100
MR-LUCQN-01	Quantum cleaning cartridge, LTO Ultrium Universal. Must order in multiples of 20.	20
	Bar Code Labels for LTO6 and LTO5  Series: 000001-00000100	1 set

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 A black and white photograph of a Quantum LTO tape drive. The drive is a dark, rectangular unit with a circular tape compartment on the right side. The Quantum logo is visible on the top left and bottom right of the drive. The background is dark and textured.
 

# Quantum

## LTO-6/LTO-5

### > DATASHEET

#### Quantum LTO Tape Drive: Best-in-Class Performance and Reliability

Quantum's LTO-6 and LTO-5 standalone drives deliver a simple, affordable, all-in-one data protection solution that customers can depend on. Many companies can store all their data on a single cartridge, thanks to the tremendous capacity (up to 6.25TB\*) LTO technology provides. In addition, companies can keep this data secure using AES 256-bit encryption as tapes are transported offsite for disaster recovery or long-term archiving. LTO-6 and LTO-5 drives are WORM capable, allowing companies from healthcare, financial, and other related industries to meet tough regulatory requirements. LTO continues to offer two generations of backward read and one generation of backward write capability, providing an archive tape data recovery solution with newer generation drives.

New functionality allows customers to simply drag and drop files to LTO-6 and LTO-5 as they would a hard drive using Linear Tape File System (LTFS) software. This eliminates the need for backup software and allows the information written to tape to be exchanged easily between different users, operating systems, and software. This is highly beneficial for many applications including media and entertainment, geospatial imaging, other video and imaging applications, long-term archiving, and other applications where removing the dependence on a proprietary format is important. LTFS is compatible with Windows, Linux, and Apple Macintosh.

#### FEATURES & BENEFITS

##### Performance\*

LTO-6: Up to 400MB/sec compressed transfer rate.

LTO-5: Up to 280MB/sec compressed transfer rate.

##### Capacity\*

LTO-6: Up to 6.25TB compressed capacity.

LTO-5: Up to 3.0TB compressed capacity.

##### Security/Ease of Use

AES 256-bit data encryption security, WORM functionality, and partitioning capability

##### Compatibility

Investment protection with two generations of backward read and one generation of backward write capability.

##### LTFS Software

Free LTFS software can be downloaded at [www.quantum.com](http://www.quantum.com)

\*Assumes 2.5:1 compression for LTO-6, 2:1 for other LTO



> LEARN MORE  
[www.quantum.com/lto](http://www.quantum.com/lto)

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# TECHNICAL SPECIFICATIONS

## DRIVE CAPACITY AND PERFORMANCE

Drive Type	Interface	Cartridge Capacity Native/Compressed (GB)	Drive Throughput Native/Compressed (MB/sec)
LTO-6	6Gb/sec SAS	2500 / 6250	160 / 400
LTO-5	6Gb/sec SAS	1500 / 3000	140 / 280
Configurations: LTO-6: Internal Bare, Internal Kit, Tabletop Kit, and 1U rackmount LTO-5: Internal Bare, Internal Kit, Tabletop Kit, and 1U rackmount			
Interface Connector Type: 6Gb/s SAS: SFF8482 w/integrated power (internal), SFF8088 (Tabletop and Rack)			
Burst Transfer Rate (MB/sec) SAS (max): 600			
Data Buffer Size: LTO-6: 512MB LTO-5: 256MB			

## TAPE/FORMAT COMPATIBILITY

	Media Read/Write	Media Read Only
LTO-6 Drive	LTO-6, LTO-6 WORM, LTO-5, LTO-5 WORM	LTO-4, LTO-4 WORM
LTO-5 Drive	LTO-5, LTO-5 WORM, LTO-4, LTO-4 WORM	LTO-3, LTO-3 WORM

## RELIABILITY

MTBF hours:	250,000 @ 100% duty cycle
MSBF:	100,000 cycles
Load/Unload Life:	180,000 cycles
Non-Recoverable Error Rate:	1 in 1 x 10 <sup>11</sup> bits (non-media error, clean drive)

## PHYSICAL SPECIFICATIONS

Form Factor	Internal w/o bezel	Internal w/bezel	Tabletop	1U Rackmount
Width (in / mm)	5.75 / 146	5.83 / 148	8.4 / 213	18.7 / 480
Height (in / mm)	1.61 / 41	1.68 / 42.7	2.3 / 58	1.7 / 43
Length (in / mm)	8.07 / 205	8.27 / 210	13.10 / 332	17.6 / 438
Weight (lbs / kg)	3.55 / 1.61	3.57 / 1.62	9.4 / 4.3	14.2 / 6.4

## ENVIRONMENTAL

<b>OPERATING</b>	
Temperature °F (°C):	LTO-6: 50° to 100° (10° to 38°) @ 5 CFM LTO-5: 50° to 100° (10° to 38°) @ 5 CFM 10% to 80% (non-condensing) 13,000 ft (4,000 m)
Humidity:	
Altitude (maximum):	
<b>NON-OPERATING</b>	
Temperature °F (°C):	-40° to 149° (-40° to 66°) excluding media
Humidity:	10% to 95% (non-condensing)
VOLTAGE (V):	+5, +12
<b>POWER CONSUMPTION (HALF-HEIGHT)</b>	
LTO-6: Idle:	13.2 Watts, Typical; 24.7 Watts, Peak; 69 Watts
LTO-5: Idle:	13.3 Watts, Typical; 23.7 Watts, Peak; 69 Watts

## TAPE FORMAT SPECIFICATIONS

Format:	LTO Ultrium 6, LTO Ultrium 5
Recording Density:	15.143KB/mm
Encoding Method:	16 Channel 32/33 RLL NPML
Data Compression:	LTO-6: 2.5:1 LTO-5: 2:1

## COMPATIBILITY

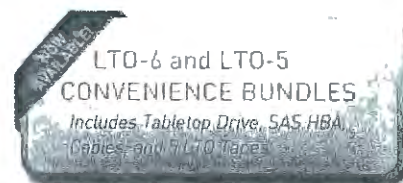
Operating Systems:	Microsoft Windows, Sun Solaris, Red Hat Linux, SuSE Linux
Software/Hardware:	Go to <a href="http://www.quantum.com">www.quantum.com</a> for the most up-to-date tested solutions

## TAPE SPECIFICATIONS

Cartridge Dimensions (LxWxH):	4" x 4.15" x .85 102mm x 105.4mm x 21.5mm
Archive Storage:	30 years
Durability:	20,000 load/unload cycles

## WARRANTY

Tape:	Limited lifetime
Tape Drive:	3 years limited with Rapid Exchange



## Model Numbers and Descriptions

TC-L62AN-BR-C	LTO-6 HH, Internal, 6GB/s SAS, 5.25", black, bare	TC-L52AN-BR-C	LTO-5 HH, Internal, 6GB/s SAS, 5.25", black, bare
TC-L62AN-EY-C	LTO-6 HH, Internal, 6GB/s SAS, 5.25", black	TC-L52AN-EY-C	LTO-5 HH, Internal, 6GB/s SAS, 5.25", black
TC-L62AN-EZ-C	LTO-6 HH, Internal, SAS HBA Bundle, 6GB/s SAS, 5.25", black	TC-L52AN-EZ-C	LTO-5 HH, Internal, SAS HBA Bundle, 6GB/s SAS, 5.25", black
TC-L62BN-AR-C	LTO-6 HH, Tabletop, 6GB/s SAS, black	TC-L52BN-AR-C	LTO-5 HH, Tabletop, 6GB/s SAS, black
TC-L62BN-EZ-C	LTO-6 HH, Tabletop, SAS HBA Bundle, 6GB/s SAS, black	TC-L52BN-EZ-C	LTO-5 HH, Tabletop, SAS HBA Bundle, 6GB/s SAS, black
TC-L62BN-EM-C	LTO-6 HH, Tabletop, SAS HBA and Media (5pcs) Bundle, 6GB/s SAS, black	TC-L52BN-EM-C	LTO-5 HH, Tabletop, SAS HBA and Media (5pcs) Bundle, 6GB/s SAS, black
TC-L630N-AR-C	LTO-6 HH, Single, 1U Rackmount, 6GB/s SAS, black	TC-L530N-AR-C	LTO-5 HH, Single, 1U Rackmount, 6GB/s SAS, black
TC-L626N-BR-C	LTO-6 HH, Internal Drive Option for 1U Rackmount, 6GB/s SAS, black, bare	TC-L526N-BR-C	LTO-5 HH, Internal Drive Option for 1U Rackmount, 6GB/s SAS, black, bare

To learn more about Quantum LTO, please visit  
[www.quantum.com/lto](http://www.quantum.com/lto)

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## DRIVE CAPACITY AND PERFORMANCE

Drive type	Interface	Cartridge Capacity Native/Compressed (GB)	Drive Throughput Native/Compressed (MB/sec)	Average File Access Time (ms)
LTO-5	6GB/s SAS	1500 / 2000	140 / 280	5 (FH), 56 (HH)
Configurations	Internal Bare, Internal Kit, Tabletop Kit, 3U Rackmount, Full-height and 1U rackmount (half-height)			
Interface Connector Type 6GB/s SAS	S1184B2 w/integrated power (Internal), SFF8081 (Tabletop and Rack)			
Burst Transfer Rate (MB/sec)	600			
SAS (max)	600			
Data Buffer Size	156MB			

## TAPE/FORMAT COMPATIBILITY

LTO-5 (read/write):	1500GB native capacity
LTO-5 WORM (read/write):	1500GB native capacity
LTO-4 (read/write):	800GB native capacity
LTO-4 WORM (read/write):	800GB native capacity
LTO-3 (read only):	400GB native capacity
LTO-3 WORM (read only):	400GB native capacity

## RELIABILITY

MTBF hours:	250,000 @ 100% duty cycle
MSBF:	100,000 cycles
Load/Unload Life:	170,000 cycles
Non-recoverable Error Rate:	1 in 1 x 10 <sup>17</sup> bits (non-media error, clean drive)

## PHYSICAL SPECIFICATIONS

Form Factor	Internal w/o bezel	Internal w/ bezel	Tabletop	3U Rackmount
Width (in/mm)	5.75 / 146.1	5.87 / 149.1	8.58 / 218	19 / 483
Height (in/mm)	3.24 / 82.5	3.37 / 85.5	4.72 / 120	5.2 / 132
Length (in/mm)	8.0 / 203	8.19 / 208	11.69 / 297	23 / 584
Weight (lbs/kg)	4.97 / 2.26	5.06 / 2.3	11.66 / 5.3	27 / 12.3

Form Factor	Internal w/o bezel	Internal w/ bezel	Tabletop	1U Rackmount
Width (in/mm)	5.75 / 146.1	5.87 / 149.1	8.82 / 224	19 / 483
Height (in/mm)	1.64 / 41.65	1.75 / 44.65	3.11 / 79	1.7 / 43
Length (in/mm)	8.11 / 206	8.3 / 211	11.35 / 301	25.3 / 643
Weight (lbs/kg)	3.11 / 1.41	3.2 / 1.45	8.15 / 3.7	20 / 9

## ENVIRONMENTAL

OPERATING	
Temperature °F (°C)	50° to 104° (10° to 40°) (≥ 8 CFM (≥ 5 CFM for half-height))
Humidity	20% to 80% (non-condensing)
Altitude (maximum)	13,000 ft (4,000 m)
NON-OPERATING	
Temperature °F (°C)	40° to 149° (-40° to 66°) excluding media
Humidity	10% to 95% (non-condensing)
VOLTAGE (V)	+5, +12
POWER CONSUMPTION (FULL-HEIGHT)	
Idle	6.7 Watts
Typical	23.1 Watts
Peak	37.2 Watts
POWER CONSUMPTION (HALF-HEIGHT)	
Idle	6.5 Watts
Typical	21.4 Watts
Peak	30.7 Watts

## TAPE FORMAT SPECIFICATIONS

Format:	LTO Ultrium 5
Recording Density:	15.143k0/mm
Encoding Method:	16 Channel 32/33 RLL NPM
Data Compression:	ALDC

## COMPATIBILITY

Operating Systems:	Microsoft Windows, Sun Solaris, Red Hat Linux, SuSE Linux
Software/Hardware:	Go to <a href="http://www.quantum.com">www.quantum.com</a> for the most up-to-date tested solution.

## TAPE SPECIFICATIONS

Cartridge Dimensions (LxWxH)	4" x 4.15" x .95"
Archive Storage:	1102mm x 105.4mm x 21.5mm
Durability	30 year
	20,000 load/unload cycles

## WARRANTY

Tape:	Limited lifetime
Tape Drive:	3 years limited with Rapid Exchange

## Model Numbers and Descriptions

TTC-LS1AN-BR	LTO-5 FH, Internal Bare, 6GB/s SAS, black bezel	TTC-LS2AN-EZ	LTO-5 HH, Internal, SAS HBA Bundle, 6GB/s SAS, 5.25", black
TTC-LS1BN-AR	LTO-5 FH, Tabletop Kit, 6GB/s SAS, black	TTC-LS2BN-AR	LTO-5 HH, Tabletop, 6GB/s SAS, black
TTC-LS3FN-AR	LTO-5 FH, 3U Rackmount, 6GB/s SAS, black	TTC-LS2BN-EZ	LTO-5 HH, Tabletop, SAS HBA Bundle, 6GB/s SAS, black
TTC-LS2AN-BR	LTO-5 HH, Internal, 6GB/s SAS, 5.25", black, bare	TTC-LS3CN-AR	LTO-5 HH, Single, 1U Rackmount, 6GB/s SAS, black
TTC-LS2AN-EZ	LTO-5 HH, Internal, 6GB/s SAS, 5.25", black		

For contact and product information,  
visit [quantum.com](http://quantum.com) or call 866-809-5230

# Quantum

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## About Quantum

Quantum Corp. (NYSE:QTM) is a proven global expert in data protection and Big Data management that provides a unique combination of intelligent storage solutions and unmatched value for traditional, virtual and cloud environments. From small businesses to multinational enterprises, more than 50,000 customers trust Quantum to help cost-effectively manage data growth and extract the full value from their digital assets. Quantum's offerings include DXi<sup>SM</sup> Series disk-based deduplication and replication systems for fast backup and restore, vmtiro solutions for protecting virtual machine data, Scalar<sup>SM</sup> tape automation products for disaster recovery and long-term data retention, and StorNext<sup>SM</sup> Big Data management software and appliances for high-performance file sharing and archiving.

Q3500415A-004 May 2012

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# Quantum

## MEDIA

### INDUSTRY-LEADING QUALITY AND RELIABILITY

### COMPATIBLE WITH QUANTUM AND OTHER BRAND LTO DRIVES AND LIBRARIES

### COMPLIMENTARY VALUE-ADDED SERVICES

### ONE SOURCE FOR ALL YOUR DATA STORAGE AND SERVICE NEEDS

Quantum



## LTO Ultrium

Meeting the Needs of a Broad Market

### WHY CHOOSE QUANTUM LTO ULTRIUM MEDIA?

- Quantum's LTO Ultrium media is manufactured to the highest industry standards for quality and reliability ensuring high performance and durability, whether utilized for primary backup or long-term archive.
- A pioneer of the LTO Consortium, Quantum is committed to the continued development of the LTO platform. Quantum's comprehensive media quality monitoring and extensive interoperability testing ensures cross-platform compatibility, optimal performance, and reliability whether you're using a Quantum tape drive, library, or other LTO-compatible hardware.
- Quantum's LTO Ultrium media is compliant with all Media Integrity Analysis utilities, including Quantum's iLayer™ Advanced Reporting and Extended Data Life Management, to provide ongoing trend data to evaluate and protect the integrity of the media pool, helping administrators improve overall backup reliability and reduce costs. When your critical data is involved, it is important to have a complete health record of your media.
- LTO Ultrium WORM (Write Once, Read Many) media cartridges are available to meet today's stringent regulatory and compliance requirements. Combined with native AES 256-bit encryption on LTO-6, LTO-5 and LTO-4 drives, WORM cartridges physically prevent data from being overwritten or tampered with, providing a reliable, accurate and scalable data integrity solution.
- Quantum's LTO media offering supports your comprehensive "edge-to-core" backup, recovery and archive strategy. When you use Quantum media and hardware, you get the added assurance of over 30 years of storage experience and service behind the entire solution.

### QUANTUM OFFERS COMPLIMENTARY VALUE-ADDED SERVICES TO SAVE YOU TIME AND MONEY MANAGING YOUR MEDIA:

Have you ever spent hours unpacking, labeling and loading media into your library?  
Why waste IT resources unpacking boxes and labeling cartridges?

Your time and your data are valuable. We understand that.

- Allow Quantum to pre-label your data cartridges with your requested bar code label sequences and color scheme. They will arrive ready to load into the library.

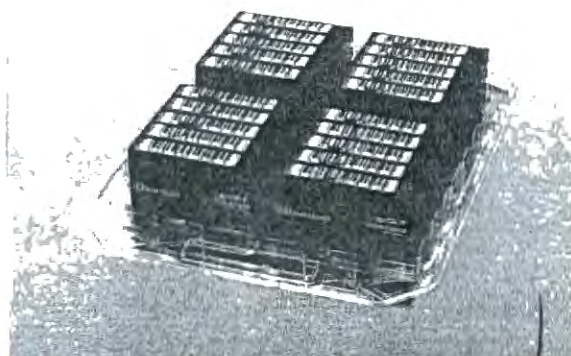
No need for individual cartridge cases? No problem! We offer "library packaging" to save you time!

- This eco-friendly bulk packaging option protects cartridges during shipment and storage without the individual cartridge cases. This allows quicker access to the cartridges to expedite loading into automation slots/trays—and it results in less waste.

Combine bar code labeling with library packaging and save even more time.

### FEATURES AND BENEFITS

- High Storage Capacity** – Up to 2500GB native and up to 6250GB compressed<sup>17</sup>
- Up to 30-Year Archival Life**
- WORM (Write Once, Read Many)** – Addresses today's tough regulatory and compliance needs
- High Performance** – A high-durability, non-contact IC memory chip up to 16KB is built-in; this contributes to significant improvement in tape library access and health reporting
- Bar Code Labeling and Library Packaging** – Available to quickly load automation slots/trays
- Over 30 Years of Experience** – Demonstrated top performance and innovation in hardware and media products



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all in



## BASIC GENERATION SPECIFICATIONS

	Ultrium 6 Ultrium 6 WORM	Ultrium 5 Ultrium 5 WORM	Ultrium 4 Ultrium 4 WORM	Ultrium 3 Ultrium 3 WORM	Ultrium 2	Ultrium 1	Ultrium Universal Cleaning
Drive Compatibility	LTO-6 LTO-6 WORM	LTO-5 LTO-5 WORM	LTO-4 LTO-4 WORM	LTO-3 LTO-3 WORM	LTO-2	LTO-1	All
Cartridge Color	Black Black/Gray	Brick Red Brick Red/Gray	Green Green/Gray	Blue Blue/Gray	Purple	Black	Black
Capacity (Native/Compressed)	2500/6250GB	1500/3000GB	800/1600GB	400/800GB	200/400GB	100/200GB	Maximum 50 cleaning cartridges
Tape Length	640m (213') 776	640m (213') 776	870m (285') 891	590m (193') 611	400m (1312') 421	400m (1312') 421	219m (719') 240

## DIMENSIONS

Tape Width	12.5mm (0.5")
Cartridge	21.5x105.4x102.0mm
Dimensions (H x W x L)	(10.85 x 4.15" x 4.02")

## OPERATING ENVIRONMENT

Temperature	10 - 45°C (50 - 113°F)
Humidity	10 - 80%RH

## STORAGE ENVIRONMENT - NON-ARCHIVE

	Ultrium 6 and 5	Ultrium 4, 3, 2, 1 and Cleaning
Temperature	10 - 35°C (61 - 95°F)	16 - 32°C (61 - 90°F)
Humidity	20 - 80%RH	20 - 80%RH

## STORAGE ENVIRONMENT - ARCHIVE

Temperature	16 - 25°C (61 - 77°F)
Humidity	20 - 50%RH
(Not applicable to cleaning cartridge)	

Model 2130  
Based on LTO-6 cartridge

## Model Numbers and Descriptions

	Standard	WORM	Bar Code Labeled	Bar Code Labeled - WORM	Library Pack	Bar Code Labeled Library Pack
Ultrium 6	MR-L6MDN-01	MR-L6MDN-02	MR-L6MDN-BC	MR-L6MDN-BC	MR-L6MDN-20	MR-L6MDN-BC
Ultrium 5	MR-L5MDN-01	MR-L5MDN-02	MR-L5MDN-BC	MR-L5MDN-BC	MR-L5MDN-20	MR-L5MDN-BC
Ultrium 4	MR-L4MDN-01	MR-L4MDN-02	MR-L4MDN-BC	MR-L4MDN-BC	MR-L4MDN-20	MR-L4MDN-BC
Ultrium 3	MR-L3MDN-01	MR-L3MDN-02	MR-L3MDN-BC	MR-L3MDN-BC	MR-L3MDN-20	MR-L3MDN-BC
Ultrium 2	MR-L2MDN-01		MR-L2MDN-BC		MR-L2MDN-20	MR-L2MDN-BC
Ultrium 1	MR-L1MDN-01		MR-L1MDN-BC			
Ultrium Cleaning	MR-L00DN-01		MR-L00DN-BC			

## ABOUT QUANTUM

Quantum is a proven global expert in Data Protection and Big Data management, providing specialized storage solutions for physical, virtual and cloud environments for small businesses to major enterprises, more than 10,000 customers trust Quantum to help maximize the value of their data by protecting and preserving it over its entire lifecycle. With Quantum customers can Be Certain they're able to adapt to a changing world - keeping more data longer, securely, transparently, and reducing costs. See how at [www.quantum.com/BeCertain](http://www.quantum.com/BeCertain)

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00500301A-004 Nov 2012

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## MEDIA

INDUSTRY LEADING QUALITY  
AND RELIABILITY

COMPATIBLE WITH QUANTUM AND OTHER  
BRAND LTO DRIVES AND LIBRARIES

COMPLIMENTARY VALUE ADDED  
SERVICES

ONE SOURCE FOR ALL YOUR DATA  
STORAGE AND SERVICE NEEDS



# LTO Ultrium

Meeting the Needs of a Broad Market

## WHY CHOOSE QUANTUM LTO ULTRIUM MEDIA:

- Quantum's LTO Ultrium media is manufactured to the highest industry standards for quality and reliability ensuring high performance and durability, whether utilized for primary backup or long-term archive.
- A pioneer of the LTO Consortium, Quantum is committed to the continued development of the LTO platform. Quantum's comprehensive media quality monitoring and extensive interoperability testing ensures cross-platform compatibility, optimal performance, and reliability whether you're using a Quantum tape drive, library, or other LTO compatible hardware.
- Quantum's LTO Ultrium media is compliant with all Media Integrity Analysis utilities, including Quantum's iLayer Advanced Reporting and Extended Data Life Management, to provide ongoing trend data to evaluate and protect the integrity of the media pool, helping administrators improve overall backup reliability and reduce costs. When your critical data is involved, it's important have a complete health record of your media.
- LTO Ultrium WORM (Write Once Read Many) media cartridges are available to meet today's stringent regulatory and compliance requirements. Combined with native AES 256-bit encryption on LTO-4 and LTO-5 drives, WORM cartridges physically prevent data from being overwritten or tampered with, providing a reliable, accurate and scalable data integrity solution.
- Quantum's LTO media offering supports your comprehensive, "edge to core" backup, recovery and archive strategy. When you use Quantum media and hardware, you get the added assurance of over 30 years of storage experience and service behind the entire solution.

## QUANTUM OFFERS COMPLIMENTARY VALUE-ADDED SERVICES TO SAVE YOU TIME AND MONEY MANAGING YOUR MEDIA:

Have you ever spent hours unpacking, labeling and loading media into your library?

Why waste IT resources unpacking boxes and labeling cartridges?

Your time and your data are valuable. We understand that.

- Allow Quantum to pre-label your data cartridges with your requested bar code label sequences and color scheme. They'll arrive ready to load into the library.

No need for individual cartridge cases? No problem! We offer "library packaging" to save you time!

- This eco-friendly bulk packaging option protects cartridges during shipment and storage without the individual cartridge cases. This allows quicker access to the cartridges to expedite loading into automation slots/trays—and it results in less waste. Combine bar code labeling with library packaging and save even more time!

## FEATURES AND BENEFITS

- High Storage Capacity** – Up to 1500GB native and up to 3000GB compressed
- Fast Transfer Rate** – Up to 280MB/sec for quicker backup and improved cost efficiency
- Up to 30 year archival life**
- WORM (Write Once Read Many)** – Addresses today's tough regulatory and compliance needs
- High-Performance** – a high-durability non contact IC memory chip up to 8KB is built-in; this contributes to significant improvement in tape library access and health reporting
- Bar code labeling and library packaging** available to quickly load automation slots/trays
- Over 30 years of experience** – Demonstrated top performance and innovation in hardware and media products



[www.quantum.com](http://www.quantum.com)





	Ultrium 5 Ultrium 5 WORM	Ultrium 4 Ultrium 4 WORM	Ultrium 3 Ultrium 3 WORM	Ultrium 2	Ultrium 1	Ultrium Universal Cleaning
<b>BASIC SPECIFICATIONS</b>						
Drive Compatibility	LTO-4 LTO-4 WORM	LTO-4 LTO-4 WORM	LTO-3 LTO-3 WORM	LTO-2	LTO-1	All
Cartridge Color	Black/Red Black/Red/Gray	Green Green/Gray	Blue Blue/Gray	Purple	Black	Black
Capacity (Native/Compressed)	1500/3000GB <sup>1</sup>	800/1600GB <sup>1</sup>	400/800GB <sup>1</sup>	200/400GB <sup>1</sup>	100/200GB	N/A
Number of Tracks	1280	896	704	512	384	N/A
Durability	Average 1,000,000+ head passes in office/computer environment	Average 1,000,000+ head passes in office/computer environment	Average 1,000,000+ head passes in office/computer environment	Average 1,000,000+ head passes in office/computer environment	Average 1,000,000+ head passes in office/computer environment	N/A
Uses	Up to 260 full tape uses WORM - Write once, read many, append only tape. Up to 260 full tape uses (Writes, appends or reads)	Up to 260 full tape uses WORM - Write once, read many, append only tape. Up to 260 full tape uses (Writes, appends or reads)	Up to 260 full tape uses WORM - Write once, read many, append only tape. Up to 260 full tape uses (Writes, appends or reads)	Up to 260 full tape uses	Up to 260 full tape uses	Maximum 50 cleanings - drive dependent

## PHYSICAL CHARACTERISTICS

Tape Width	12.65mm (0.50")	12.65mm (0.50")	12.65mm (0.50")	12.65mm (0.50")	12.65mm (0.50")	12.65mm (0.50")
Tape Thickness	6.4µm	6.6µm	8.0µm	8.9µm	8.9µm	8.9µm
Tape Length	846m (2776')	820m (2690')	680m (2231')	609m (1998')	609m (1998')	319m (1046.59')
Cartridge Dimensions	21.5 x 105.4 x 102.0mm (0.85" x 4.15" x 4.02") [W x H x L]	21.5 x 105.4 x 102.0mm (0.85" x 4.15" x 4.02") [W x H x L]	21.5 x 105.4 x 102.0mm (0.85" x 4.15" x 4.02") [W x H x L]	21.5 x 105.4 x 102.0mm (0.85" x 4.15" x 4.02") [W x H x L]	21.5 x 105.4 x 102.0mm (0.85" x 4.15" x 4.02") [W x H x L]	21.5 x 105.4 x 102.0mm (0.85" x 4.15" x 4.02") [W x H x L]

## OPERATING ENVIRONMENT

Temperature	20 - 45°C (50 - 113°F)	0 - 45°C (50 - 113°F)	10 - 45°C (50 - 113°F)	10 - 45°C (50 - 113°F)	10 - 45°C (50 - 113°F)	10 - 45°C (50 - 113°F)
Humidity	10 - 80%RH	10 - 80%RH	10 - 80%RH	10 - 80%RH	10 - 80%RH	10 - 80%RH

## STORAGE ENVIRONMENT - NON-ARCHIVE

Temperature	16 - 32°C (61 - 90°F)	16 - 32°C (61 - 90°F)	16 - 32°C (61 - 90°F)	16 - 32°C (61 - 90°F)	16 - 32°C (61 - 90°F)	16 - 32°C (61 - 90°F)
Humidity	20 - 80%RH	20 - 80%RH	20 - 80%RH	20 - 80%RH	20 - 80%RH	20 - 80%RH

## STORAGE ENVIRONMENT - ARCHIVE

Temperature	16 - 25 °C (61 - 77°F)	16 - 25 °C (61 - 77°F)	16 - 25 °C (61 - 77°F)	16 - 25 °C (61 - 77°F)	16 - 25 °C (61 - 77°F)	N/A
Humidity	20 - 50%RH	20 - 50%RH	20 - 50%RH	20 - 50%RH	20 - 50%RH	N/A

<sup>1</sup> Based on 2:1 compression

## Model Numbers and Descriptions

	Standard	WORM	Bar Code Labeled	Bar Code Labeled - WORM	Library Pack	Bar Code Labeled Library Pack
Ultrium 5	MR15MQN-01	MR15MQN-02	MR15MQN-BC	MR15WQN-BC	MR15MQN-20	MR15LQN-BC
Ultrium 4	MR14MQN-01	MR14MQN-02	MR14MQN-BC	MR14WQN-BC	MR14MQN-20	MR14LQN-BC
Ultrium 3	MR13MQN-01	MR13MQN-02	MR13MQN-BC	MR13WQN-BC	MR13MQN-20	MR13LQN-BC
Ultrium 2	MR12MQN-01		MR12MQN-BC		MR12MQN-20	MR12LQN-BC
Ultrium 1	MR11MQN-01		MR11MQN-BC			

For contact and product information,  
visit [quantum.com](http://quantum.com) or call 800-677-6268

# Quantum

Preserving the World's Most Important Data. Yours.™

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## About Quantum

Quantum Corp. (NYSE:QTM) is the leading global specialist in backup, recovery, and archive. From small businesses to multinational enterprises, more than 50,000 customers trust Quantum to solve their data protection, retention and management challenges. Quantum's best-of-breed, open systems solutions provide significant storage efficiencies and cost savings while minimizing risk and protecting prior investments. They include three market-leading, highly scalable platforms: DXi® Series disk-based deduplication and replication systems for fast backup and restore, Scalar® tape automation products for disaster recovery and long-term data retention, and StorNext® data management software for high-performance file sharing and archiving. Quantum Corp., 1650 Technology Drive, Suite 800, San Jose, CA 95110, (408) 944-4000, [www.quantum.com](http://www.quantum.com)

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## DXi6700 Series

High-performance, easy-to-deploy disk backup with deduplication and replication for NAS and fibre channel environments

Many IT departments needing faster backup, improved restores, more efficient DR, and lower costs have struggled to make the right product choices. Traditional D2D products fill up too quickly, and finding the right deduplication solution has been difficult. Appliances often have narrow scalability and interconnect options, forcing users to make decisions now that limit future choices, and hidden charges can make real costs unpredictable. Software-only options are often complex and limited in effectiveness.

The DXi6701 and DXi6702 appliances provide deduplication without compromise, combining broad scalability and high performance with leading value and unique extensibility to support the broadest range of IT environments today and into the future. Built on Quantum's DXi software, the DXi6701/02 appliances are purpose-built solutions that scale from 8 to 80TB of usable capacity in a single system, and provides fast backup performance—achieving up to 9.1TB/hour in conventional inline target mode, without restricting backup applications or requiring additional software installation. The DXi6701/02 gives IT departments optimal investment protection with a combination of maximum flexibility and value. All units provide simultaneous NAS, VTL and OST interfaces, making it easy for users to add or change interconnect choices as their backup environments evolve. Optimized Synthetic Full Backups run with OST resulting in significantly reduced I/O traffic for backup and full restores. To keep costs low both at acquisition and in the future, the appliance base price includes all software licenses, including AES 256-bit encrypted remote replication for automated DR protection, direct tape creation for integrated long-term retention, and DXi Accent™ software for hybrid-mode deduplication.

With the DXi6701/02, IT departments are provided with multi-site, multi-tier protection that is easy to manage both for near-term restore and long-term retention in any backup environment. The end results are improved protection, streamlined management, and lower overall costs.

### KEY BENEFITS

#### Industry-leading Scalability, Performance, and Interface Choices for Flexibility and Reduced Costs

- Scales from 8 to 80TB in a single system to support future needs cost effectively
- Provides disk-to-disk performance of up to 9.1TB/hour without restricting backup applications
- Supports OST Optimized Synthetic Full Backups for extremely rapid backups and restores
- Uses patented variable-length inline data deduplication technology to reduce typical disk usage by 90% or more

#### Use Replication to Improve and Automate Disaster Recovery Protection and Lower Costs

- Reduce typical bandwidth requirements by more than 90%, making remote replication a practical DR tool
- Reduce media handling, lower costs, and mitigate risk
- Replication supports 256-bit encryption for secured data disaster recovery
- DXi V1000 replication from edge sites provides DR for remote sites
- Enhanced network control with replication bandwidth scheduling

#### Simple and Affordable Protection for Physical and Virtual Servers

- Models include all software licenses including DXi Accent for distributed deduplication, making it easy and affordable to meet user needs
- User installable design reduces costs
- Works with all leading backup software and your existing infrastructure to provide high ROI
- Integrated support for vmPRO Software, providing faster, easier protection of virtual servers and optimized VM deduplication rates





## Simple Solution Eases Difficult Backup Problems and Reduces Costs

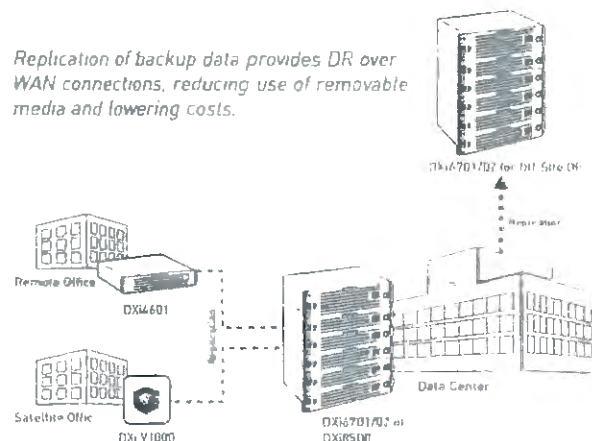
The DXi6701/02 are high-performance appliances that provide a better disk backup solution by making the most advanced deduplication technology both affordable and easy-to-use. These models leverage the latest deduplication technology—along with solid state disk (SSD), advanced connectivity options, seamless scalability, and direct tape creation—in a scalable, purpose-built appliance that includes all software licenses—deduplication, replication, path-to-tape, NAS and OST interfaces, DXi® Advanced Reporting, and DXi Accent software for collaborative deduplication. The DXi6701/02 with DXi software provides the fastest inline deduplication in its class—up to 9.1TB/hour in conventional VTL or OST target operation. Its range of presentations—VTL, NAS, and OST—makes it easy to deploy in any backup environment. DXi appliances protect data on both physical and virtual servers, and they work effectively with all leading backup software applications to provide rapid return on user investment. In a recent IDC study, DXi customers enjoyed returns of \$4.75 for every \$1 invested over a three-year deployment, and the deduplication systems paid for themselves in savings within an average of seven months.

BACKUP PROBLEM	DXi6701/02 SOLUTION
Meeting backup and recovery windows	Disk performance and reliability for backup and restore, with up to 9.1TB/hour performance
Backing up distributed offices	NAS, VTL, OST interfaces, remote replication and DXi Accent for distributed deduplication DXi V1000, DXi Virtual Appliance provides complete replication capabilities from edge sites to DXi6701/02 at the datacenter
High backup costs	Reduced media use, fast return on investment
Running out of capacity	Scales from 8 to 80 TB, deduplication reduces disk need by 90% or more
Rapid data growth	Systems scale simply on site
Offsite security and DR	Encrypted (256-bit) replication, reduced removable media, integrated tape for low cost retention

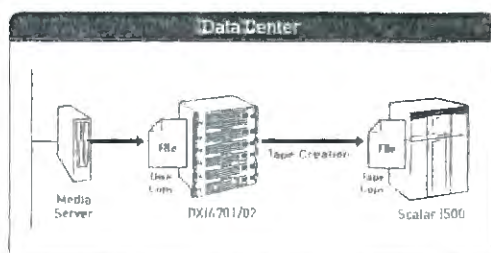
## Replication Provides Automated, LAN based DR Protection

DR protection for distributed sites is a persistent IT problem. Managing removable media across multiple remote sites is expensive, time-consuming, and error-prone. Traditional disk-to-disk systems don't offer an effective solution since backup volumes are too large to allow replication for most users. Quantum's deduplication technology makes remote replication a practical and cost effective tool for DR protection by dramatically reducing the bandwidth required to move backup data over networks. Offsite copies of backup sets are created automatically by DXi systems and copied to DR centers, letting users reduce or eliminate the need to manage removable media and dramatically reducing costs. Using the DXi V1000, a software virtual appliance DXi at remote sites, provides complete edge-based data protection with replication to datacenter sites with any resident DXi. The DXi-Series includes advanced features such as global deduplication, AES 256-bit encryption of transmitted data, optimized synthetic backups, replication scheduling, and file-by-file or cartridge-by-cartridge replication control as part of a fully automated, multi-site process.

Replication of backup data provides DR over WAN connections, reducing use of removable media and lowering costs.



## Integrates Backup and Restore with Long-Term Retention



Close integration with backup applications reduces complexity and improves protection. The DXi6701/02 writes data directly from disk to a tape library, bypassing the media server. The process is controlled and media is cataloged by the backup application.

The DXi6701/02 offers an application-specific direct path-to-tape as a standard feature on all models to provide optimal integration of short-term backup/restore with economical long-term retention. This feature writes backup data directly from the DXi appliance to an attached tape library over an 8Gb FC link, without sending the data back through a media server. Direct tape creation reduces loading on media servers, and it makes tape creation an automated process that takes place outside the backup window. Quantum's application-specific path-to-tape is integrated with leading backup applications, giving users a single point of control and media catalogs that automatically track data across disk and tape layers. The direct path-to-tape is fully compatible with DXi Accent, providing practical integration of low-cost, long-term retention with the industry's most advanced hybrid-mode deduplication.

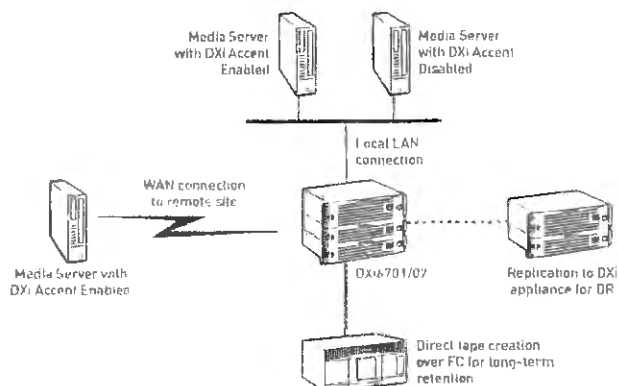
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# DXi6700 Series

## DXi Accent Accelerates Backup over Networks

DXi Accent is software that unlocks the power of collaborative deduplication to increase backup speeds in bandwidth-constrained environments while maintaining integrated support for DR and long-term retention. In situations where the network from the backup server to the appliance has limited bandwidth or high latency, overall performance can be too slow to support users' backup window requirements. DXi Accent provides the solution by allowing the backup server to collaborate in the deduplication process, off-loading part of the dedupe activity so that only unique blocks are sent over the LAN or WAN to the DXi appliance. The result of this hybrid operation is faster backup in network-constrained environments and a software alternative to disk appliances for remote locations. With DXi Accent, this backup acceleration does not introduce compromises—there is still one, central deduplication index and data pool for maximum data reduction, simplicity, and data integrity. For maximum flexibility, a single DXi appliance can support DXi Accent's hybrid operation and

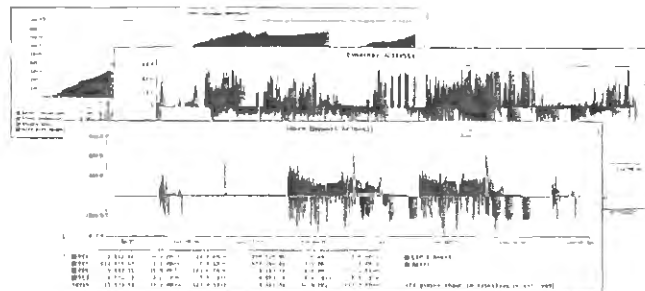
conventional target mode operation at the same time, and the backup server can be either local (LAN connection) or remote (WAN). When DXi Accent is enabled, all other DXi features—including replication and direct tape creation—are still supported, providing a unique level of integration with automated DR protection and cost-effective long-term retention. DXi Accent supports NetBackup using the OST API.



*DXi Accent software accelerates backup over networks with limited bandwidth by moving part of the deduplication process to the media server in a collaborative, hybrid operation. When DXi Accent is enabled, only unique blocks are moved over the network to the appliance. Replication and direct tape creation integrate automated DR protection and low-cost long-term data retention.*

## Management Tools Maximize Value in Deduplication Environments

Effective management is critical for obtaining full value from deduplication deployments. Quantum provides the industry's most advanced set of management tools for disk appliances and the entire backup infrastructure. DXi Advanced Reporting, included on all DXi appliances, sets new standards for onboard intelligence by giving users a detailed view of internal operations and providing them with years of backup and replication data for extended trend analysis. DXi Advanced Reporting reduces administration time, streamlines performance tuning, and helps users maximize the value of their DXi appliances. Quantum Vision® management software provides industry-unique capabilities, giving IT departments global management of all their Quantum disk and tape systems from a single console. Quantum Vision also provides storage administrators mobile access to their Vision data anywhere, anytime—through the Vision for iPhone/iPad and Vision for Android apps.



*Quantum management tools provide details of internal appliance operations and single-console views across all of a user's disk and tape systems. They reduce management time, streamline performance tuning, accelerate troubleshooting, and provide trend analysis information for proactive decision-making that maximizes system value.*

## Enabled by Quantum's vmPRO Software for VMware Protection

Quantum vmPRO™ software is the VM data protection solution that works with DXi appliances to simplify and accelerate backup, restore, and DR protection in virtual environments while reducing IT costs. The vmPRO software utilities present a file system view of VM files, automatically create native-format VM copies on secondary disk, reduce VM backup data by up to 75%, and boost deduplication rates. All vmPRO utilities operate inside the virtual environment, eliminating the need for external servers, and they support third-party backup applications, providing optimized results in consolidated environments. Quantum vmPRO software provides optimized support for DXi appliances, providing the most effective deduplication rates and the fastest VM recovery in the industry.







Republic of the Philippines  
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**NOTICE OF AWARD**

**One (1) Lot Data De-Duplication Capacity Enhancements**  
 (ITB No. DDCE 2014-009-IT)

Date Issued: March 12, 2015

Ms. ANGELA S. FUERTES  
 Sales Manager  
**SANDZ SOLUTIONS PHILS., INC.**  
 6/Fr. CYA Bldg. 110 Rada St.  
 Legaspi Village, Makati City  
 Telephone: (02) 887-5757  
 Telefax: (02) 887-1383

Dear Ms. Fuertes:


We are pleased to notify you that your bid proposal for the bidding on the procurement of **One (1) Lot Data De-Duplication Capacity Enhancements** for the execution of *Sandz Solutions Phils., Inc.* at the Contract Price equivalent to **Eight Million Nine Hundred Sixty Eight Thousand Eight Hundred Eighty Pesos (PhP8,968,880.00)** is hereby accepted.

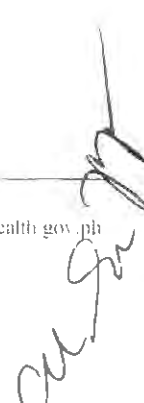
You are hereby required to provide within ten (10) calendar days the **performance security** in the form and amount stipulated in the Bid Documents of the said procurement. Failure to provide the performance security shall constitute sufficient ground for cancellation of the award and forfeiture of the bid security.

Very truly yours,

  
**ALEXANDER A. PACILLA**  
 President and CEO

Conforme:

  
**Ms. ANGELA S. FUERTES**  
 Sales Manager  
**SANDZ SOLUTIONS PHILS., INC.**  
 Date: March 12, 2015







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**BIDS AND AWARDS COMMITTEE FOR INFORMATION TECHNOLOGY  
RESOURCES (BAC-ITR)  
RESOLUTION NO. 7, S. 2015**

**RESOLUTION RECOMMENDING THE DECLARATION OF SANDZ  
SOLUTIONS PHILS., INC. AS THE BIDDER WITH THE SINGLE CALCULATED  
AND RESPONSIVE BID (SCRB) AND THE AWARD THERETO OF THE  
CONTRACT ON THE BIDDING FOR THE PROCUREMENT OF ONE (1) LOT  
DATA DE-DUPLICATION CAPACITY ENHANCEMENTS**

**WHEREAS**, based on the approved Request and Issue Voucher (RIV) No. 14-1083 dated October 28, 2014, the Information Technology Management Department (ITMD) requested One (1) Lot Data De-Duplication Capacity Enhancements with an Approved Budget for the Contract (ABC) of Eight Million Nine Hundred Ninety Nine Thousand Six Hundred Twenty Six Pesos (PhP8,999,626.00) and which procurement was advertised on December 22, 2014 at the Philippine Star (PS) and posted at the Phil-GEPS, PhilHealth Corporate website and at conspicuous places located at the PhilHealth Head Office on December 22 -28, 2014;

**WHEREAS**, in response to the said invitation, only Sandz Solutions Phils., Inc. secured the bidding documents;

**WHEREAS**, a Pre-Bid Conference was held on January 9, 2015 at the SBAC Conference Room in order for the BAC-ITR to address requests for clarifications and other queries of the proponents with regard to the provisions of the Bidding Documents of One (1) Lot Data De-Duplication Capacity Enhancements and thereafter issued a Bid Bulletin dated January 14, 2015;

**WHEREAS**, the Opening of Bids was held on January 20, 2015 at the SBAC Conference Room, Sandz Solutions Phils., Inc. submitted its bid on time;

**WHEREAS**, during the said Opening of Bids, Sandz Solutions Phils., Inc. which offered a financial bid proposal of Eight Million Nine Hundred Sixty Eight Thousand Eight Hundred Eighty Pesos (PhP8,968,880.00) was adjudged as the proponent with the Single Calculated Bid (SCB). As such, the BAC-ITR instructed the Technical Working Group (TWG) concerned to proceed with the post-qualification of the aforementioned bidder;

**WHEREAS**, the TWG conducted an evaluation on January 27, 2015 and presented its report in the BAC-ITR meeting on February 5, 2015 and informed the Committee that the bid proposal of Sandz Solutions Phils., Inc. was found to be compliant with the eligibility, technical and financial requirements of PhilHealth;

**WHEREAS**, the BAC-ITR concurred with the recommendation of the TWG to declare Sandz Solutions Phils., Inc. as the bidder with the Single Calculated and Responsive Bid;

**NOW, THEREFORE**, premises considered, the BAC-ITR resolves, as it is hereby resolved, to recommend to the President and CEO the award of the contract on the bidding for the procurement of **One (1) Lot Data De-Duplication Capacity Enhancements** to **SANDZ SOLUTIONS PHILS., INC.**

**IT IS SO RESOLVED.**



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Signed this 5<sup>th</sup> day of February 2014 at Pasig City

*[Signature]*  
**SVP ERNESTO V. BELTRAN**  
*Chairperson, BAC-ITR*

*[Signature]*  
**VP FRANCISCO Z. SORIA, JR.**  
*Vice-Chairperson, BAC-ITR*

*[Signature]*  
**SM MARIO S. MATANGUIHAN**  
*Member, BAC-ITR*

*on Official Business*  
**SM NARISA PORTIA J. SUGAY**  
*Member, BAC-ITR*

*on Leave*  
**OIC-SM RONALD ALLAN C. PABLO**  
*Member, BAC-ITR*

*on Official Business*  
**OIC-SM ATTY. MA. EMILY P. ROQUE**  
*Member, BAC-ITR*

*[Signature]*  
**CIO CELERINO S. GABRERA, JR.**  
*Member- End-user, BAC-ITR*

☒ APPROVED  
☐ DISAPPROVED  
☐ Others \_\_\_\_\_

*[Signature]*  
**ALEXANDER A. PADILLA**  
President and CEO  
Date Signed: \_\_\_\_\_

BAC-ITR Resolution recommending declaration of Sandz Solutions Phils., Inc. as the SCRIB and the award thereto of the contract on the bidding for the procurement of One (1) Lot Data De-Duplication Capacity Enhancements.

## Section IV. General Conditions of Contract

### 1. Definitions

1.1. In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Procuring Entity and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and 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 of the supplies, equipment, machinery, spare parts, other materials and/or general support services which the Supplier is required to provide to the Procuring Entity under the Contract.
- (d) "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
- (e) "GCC" means the General Conditions of Contract contained in this Section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Procuring Entity" means the organization purchasing the 1., as named in the SCC.
- (h) "The Procuring Entity's country" is the Philippines.
- (i) "The Supplier" means the individual contractor, manufacturer distributor, or firm supplying/manufacturing the Goods and Services under this Contract and named in the SCC.
- (j) The "Funding Source" means the organization named in the SCC.
- (k) "The Project Site," where applicable, means the place or places named in the SCC.
- (l) "Day" means calendar day.
- (m) The "Effective Date" of the contract will be the date of receipt by the Supplier of the Notice to Proceed or the date provided in the Notice to Proceed. Performance of all obligations shall be reckoned from the Effective Date of the Contract.
- (n) "Verified Report" refers to the report submitted by the Implementing Unit to the Head of the Procuring Entity setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.

## 2. Corrupt, Fraudulent, Collusive, and Coercive Practices

2.1. Unless otherwise provided in the SCC, the Procuring Entity as well as the bidders, contractors, or suppliers shall observe the highest standard of ethics during the procurement and execution of this Contract. In pursuance of this policy, the Procuring Entity:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

- (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the Government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in Republic Act 3019.
- (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
- (iii) "collusive practices" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.
- (iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;
- (v) "obstructive practice" is
  - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or
  - (bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.

- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.

2.2. Further the Funding Source, Borrower or Procuring Entity, as appropriate, will seek to impose the maximum civil, administrative and/or criminal penalties available under the applicable law on individuals and organizations deemed to be involved with any of the practices mentioned in GCC Clause 2.1(a).

### 3. Inspection and Audit by the Funding Source

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

### 4. Governing Law and Language

4.1. This Contract shall be interpreted in accordance with the laws of the Republic of the Philippines.

4.2. This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract. All correspondence and other documents pertaining to this Contract exchanged by the parties shall be written in English.

### 5. Notices

5.1. Any notice, request, or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request, or consent shall be deemed to have been given or made when received by the concerned party, either in person or through an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the SCC, which shall be effective when delivered and duly received or on the notice's effective date, whichever is later.

5.2. A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SCC for GCC Clause 5.1.

### 6. Scope of Contract

6.1. The GOODS and Related Services to be provided shall be as specified in Section VI. Schedule of Requirements.

6.2. This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. Any additional requirements for the completion of this Contract shall be provided in the SCC.

### 7. Subcontracting

7.1. Subcontracting of any portion of the Goods, if allowed in the BDS, does not relieve the Supplier of any liability or obligation under this Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants or workmen.

- 7.2. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract, subject to compliance with the required qualifications and the approval of the Procuring Entity.

**8. Procuring Entity's Responsibilities**

- 8.1. Whenever the performance of the obligations in this Contract requires that the Supplier obtain permits, approvals, import, and other licenses from local public authorities, the Procuring Entity shall, if so needed by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.
- 8.2. The Procuring Entity shall pay all costs involved in the performance of its responsibilities in accordance with GCC Clause 6.

**9. Prices**

- 9.1. For the given scope of work in this Contract as awarded, all bid prices are considered fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances and upon prior approval of the GPPB in accordance with Section 61 of R.A. 9184 and its IRR or except as provided in this Clause.
- 9.2. Prices charged by the Supplier for Goods delivered and/or services performed under this Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any change in price resulting from a Change Order issued in accordance with GCC Clause 29.

**10. Payment**

- 10.1. Payments shall be made only upon a certification by the Head of the Procuring Entity to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. Except with the prior approval of the President no payment shall be made for services not yet rendered or for supplies and materials not yet delivered under this Contract. Ten percent (10%) of the amount of each payment shall be retained by the Procuring Entity to cover the Supplier's warranty obligations under this Contract as described in GCC Clause 17.
- 10.2. The Supplier's request(s) for payment shall be made to the Procuring Entity in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and/or Services performed, and by documents submitted pursuant to the SCC provision for GCC Clause 6.2, and upon fulfillment of other obligations stipulated in this Contract.
- 10.3. Pursuant to GCC Clause 10.2, payments shall be made promptly by the Procuring Entity, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.
- 10.4. Unless otherwise provided in the SCC, the currency in which payment is made to the Supplier under this Contract shall be in Philippine Pesos.

**11. Advance Payment and Terms of Payment**

- 11.1. Advance payment shall be made only after prior approval of the President, and shall not exceed fifteen percent (15%) of the Contract amount, unless otherwise directed by the President or in cases allowed under Annex "D" of RA 9184.
- 11.2. For Goods supplied from abroad, the terms of payment shall be as follows:

- (a) On Contract Signature: Fifteen percent (15%) of the Contract Price shall be paid within sixty (60) days from signing of the Contract and upon submission of a claim and a bank guarantee for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII. Bidding Forms.
- (b) On Delivery: Sixty Five percent (65%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents.
- (c) On Acceptance: The remaining twenty percent (20%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no inspection or acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days of the date shown on the delivery receipt the Supplier shall have the right to claim payment of the remaining twenty percent (20%) subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the SCC provision on Delivery and Documents.

11.3. All progress payments shall first be charged against the advance payment until the latter has been fully exhausted.

## 12. Taxes and Duties

The Supplier, whether local or foreign, shall be entirely responsible for all the necessary taxes, stamp duties, license fees, and other such levies imposed for the completion of this Contract.

## 13. Performance Security

- 13.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any the forms prescribed in the ITB Clause 33.2.
- 13.2. The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the winning bidder is in default in any of its obligations under the contract.
- 13.3. The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance.
- 13.4. The performance security may be released by the Procuring Entity and returned to the Supplier after the issuance of the Certificate of Final Acceptance subject to the following conditions:
  - (a) There are no pending claims against the Supplier or the surety company filed by the Procuring Entity;
  - (b) The Supplier has no pending claims for labor and materials filed against it; and
  - (c) Other terms specified in the SCC.
- 13.5. In case of a reduction of the contract value, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such

reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.

**14. Use of Contract Documents and Information**

- 14.1. The Supplier shall not, except for purposes of performing the obligations in this Contract, without the Procuring Entity's prior written consent, disclose this Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Entity. Any such disclosure shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.
- 14.2. Any document, other than this Contract itself, enumerated in GCC Clause 14.1 shall remain the property of the Procuring Entity and shall be returned (all copies) to the Procuring Entity on completion of the Supplier's performance under this Contract if so required by the Procuring Entity.

**15. Standards**

The Goods provided under this Contract shall conform to the standards mentioned in the Section VII. Technical Specifications; and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the institution concerned

**16. Inspection and Tests**

- 16.1. The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Entity. The SCC and Section VII Technical Specifications shall specify what inspections and/or tests the Procuring Entity requires and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 16.2. If applicable, the inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Entity. The Supplier shall provide the Procuring Entity with results of such inspections and tests.
- 16.3. The Procuring Entity or its designated representative shall be entitled to attend the tests and/or inspections referred to in this Clause provided that the Procuring Entity shall bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 16.4. The Procuring Entity may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Procuring Entity, and shall repeat the test and/or inspection, at no cost to the Procuring Entity, upon giving a notice pursuant to GCC Clause 5.
- 16.5. The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, shall release the Supplier from any warranties or other obligations under this Contract.



**17. Warranty**

- 17.1. The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials, except when the technical specifications required by the Procuring Entity provides otherwise.
- 17.2. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 17.3. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier for a minimum period specified in the SCC. The obligation for the warranty shall be covered by, at the Supplier's option, either retention money in an amount equivalent to at least ten percent (10%) of the final payment, or a special bank guarantee equivalent to at least ten percent (10%) of the Contract Price or other such amount if so specified in the SCC. The said amounts shall only be released after the lapse of the warranty period specified in the SCC, provided, however, that the Supplies delivered are free from patent and latent defects and all the conditions imposed under this Contract have been fully met.
- 17.4. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, within the period specified in the SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Procuring Entity.
- 17.5. If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in GCC Clause 17.4, the Procuring Entity may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Entity may have against the Supplier under the Contract and under the applicable law.

**18. Delays in the Supplier's Performance**

- 18.1. Delivery of the Goods and/or performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Entity in Section VI. Schedule of Requirements.
- 18.2. If at any time during the performance of this Contract, the Supplier or its Subcontractor(s) should encounter conditions impeding timely delivery of the Goods and/or performance of Services, the Supplier shall promptly notify the Procuring Entity in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, and upon causes provided for under GCC Clause 22, the Procuring Entity shall evaluate the situation and may extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of Contract.
- 18.3. Except as provided under GCC Clause 22, a delay by the Supplier in the performance of its obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 19, unless an extension of time is agreed upon pursuant to GCC Clause 29 without the application of liquidated damages.

**19. Liquidated Damages**

Subject to GCC Clauses 18 and 22, if the Supplier fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in this Contract inclusive of

duly granted time extensions if any, the Procuring Entity shall, without prejudice to its other remedies under this Contract and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. The maximum deduction shall be ten percent (10%) of the amount of contract. Once the maximum is reached, the Procuring Entity shall rescind the Contract pursuant to GCC Clause 23, without prejudice to other courses of action and remedies open to it.

## 20. Settlement of Disputes

- 20.1. If any dispute or difference of any kind whatsoever shall arise between the Procuring Entity and the Supplier in connection with or arising out of this Contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 20.2. If after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Procuring Entity or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 20.3. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under this Contract.
- 20.4. In the case of a dispute between the Procuring Entity and the Supplier, the dispute shall be resolved in accordance with Republic Act 9285 ("R.A. 9285"), otherwise known as the "Alternative Dispute Resolution Act of 2004."
- 20.5. Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and the Procuring Entity shall pay the Supplier any monies due the Supplier.

## 21. Liability of the Supplier

- 21.1. The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines, subject to additional provisions, if any, set forth in the SCC.
- 21.2. Except in cases of criminal negligence or willful misconduct, and in the case of infringement of patent rights, if applicable, the aggregate liability of the Supplier to the Procuring Entity shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

## 22. Force Majeure

- 22.1. The Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that the Supplier's delay in performance or other failure to perform its obligations under the Contract is the result of a *force majeure*.
- 22.2. For purposes of this Contract the terms "*force majeure*" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or *force majeure* shall be interpreted to mean an event which the Contractor could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Contractor. Such events may include, but not

limited to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

- 22.3. If a *force majeure* situation arises, the Supplier shall promptly notify the Procuring Entity in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Entity in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the *force majeure*.

## 23. Termination for Default

- 23.1. The Procuring Entity shall terminate this Contract for default when any of the following conditions attends its implementation:

- (a) Outside of *force majeure*, the Supplier fails to deliver or perform any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Procuring Entity pursuant to a request made by the Supplier prior to the delay, and such failure amounts to at least ten percent (10%) of the contract price;
- (b) As a result of *force majeure*, the Supplier is unable to deliver or perform any or all of the Goods, amounting to at least ten percent (10%) of the contract price, for a period of not less than sixty (60) calendar days after receipt of the notice from the Procuring Entity stating that the circumstance of force majeure is deemed to have ceased; or
- (c) The Supplier fails to perform any other obligation under the Contract.

- 23.2. In the event the Procuring Entity terminates this Contract in whole or in part, for any of the reasons provided under GCC Clauses 23 to 26, the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Entity for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of this Contract to the extent not terminated.

- 23.3. In case the delay in the delivery of the Goods and/or performance of the Services exceeds a time duration equivalent to ten percent (10%) of the specified contract time plus any time extension duly granted to the Supplier, the Procuring Entity may terminate this Contract, forfeit the Supplier's performance security and award the same to a qualified Supplier.

## 24. Termination for Insolvency

The Procuring Entity shall terminate this Contract if the Supplier is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier.

## 25. Termination for Convenience

- 25.1. The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The Head of the Procuring Entity may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.

25.2. The Goods that have been delivered and/or performed or are ready for delivery or performance within thirty (30) calendar days after the Supplier's receipt of Notice to Terminate shall be accepted by the Procuring Entity at the contract terms and prices. For Goods not yet performed and/or ready for delivery, the Procuring Entity may elect:

- (a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Supplier.

25.3. If the Supplier suffers loss in its initial performance of the terminated contract, such as purchase of raw materials for goods specially manufactured for the Procuring Entity which cannot be sold in open market, it shall be allowed to recover partially from this Contract, on a *quantum meriti* basis. Before recovery may be made, the fact of loss must be established under oath by the Supplier to the satisfaction of the Procuring Entity before recovery may be made.

## 26. Termination for Unlawful Acts

26.1. The Procuring Entity may terminate this Contract in case it is determined *prima facie* that the Supplier has engaged, before or during the implementation of this Contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:

- (a) Corrupt, fraudulent, and coercive practices as defined in ITB Clause 3.1(a);
- (b) Drawing up or using forged documents;
- (c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
- (d) Any other act analogous to the foregoing.

## 27. Procedures for Termination of Contracts

27.1. The following provisions shall govern the procedures for termination of this Contract:

- (a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Implementing Unit shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;
- (b) Upon recommendation by the Implementing Unit, the Head of the Procuring Entity shall terminate this Contract only by a written notice to the Supplier conveying the termination of this Contract. The notice shall state:
  - (i) that this Contract is being terminated for any of the ground(s) aforementioned, and a statement of the acts that constitute the ground(s) constituting the same;
  - (ii) the extent of termination, whether in whole or in part;
  - (iii) an instruction to the Supplier to show cause as to why this Contract should not be terminated; and

- (iv) special instructions of the Procuring Entity, if any.
- (c) The Notice to Terminate shall be accompanied by a copy of the Verified Report;
- (d) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Supplier shall submit to the Head of the Procuring Entity a verified position paper stating why this Contract should not be terminated. If the Supplier fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the Head of the Procuring Entity shall issue an order terminating this Contract;
- (e) The Procuring Entity may, at any time before receipt of the Supplier's verified position paper described in item (d) above withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Supplier's receipt of the notice;
- (f) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the Head of the Procuring Entity shall decide whether or not to terminate this Contract. It shall serve a written notice to the Supplier of its decision and, unless otherwise provided, this Contract is deemed terminated from receipt of the Supplier of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate;
- (g) The Head of the Procuring Entity may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the Head of the Procuring Entity; and
- (h) The Supplier must serve a written notice to the Procuring Entity of its intention to terminate the contract at least thirty (30) calendar days before its intended termination. The Contract is deemed terminated if it is not resumed in thirty (30) calendar days after the receipt of such notice by the Procuring Entity.

**28. Assignment of Rights**

The Supplier shall not assign his rights or obligations under this Contract, in whole or in part, except with the Procuring Entity's prior written consent.

**29. Contract Amendment**

Subject to applicable laws, no variation in or modification of the terms of this Contract shall be made except by written amendment signed by the parties.

**30. Application**

These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of this Contract.

## Section V. Special Conditions of Contract

GCC Clause	
1.1(g)	The Procuring Entity is <b>Philippine Health Insurance Corporation</b> .
1.1(i)	The Supplier is <i>[to be inserted at the time of contract award]</i> .
1.1(j)	The Funding Source is: <b>Philippine Health Insurance Corporation Corporate Operating Budget for CY 2014: EIGHT MILLION NINE HUNDRED NINETY NINE THOUSAND SIX HUNDRED TWENTY SIX PESOS (PhP3,994,626.00) for the BIDDING FOR THE PROCUREMENT OF ONE (1) LOT DATA DE-DUPLICATION CAPACITY ENHANCEMENTS.</b>
1.1(k)	The Project Site is <i>at PhilHealth Head Office CityState Centre 709 Shaw Blvd., Brgy Oranbo, Pasig City</i>
5.1	The Procuring Entity's address for Notices is. <b>SVP ERNESTO V. BELTRAN</b> , Chief, Actuarial Executive, Chairperson for BAC – Information Technology Resources, Room: 1003, 10 <sup>th</sup> Floor CityState Centre, 709 Shaw Boulevard, Pasig City
6.2	<p>Delivery of the Goods and Services shall be made by the Supplier in accordance with the terms specified in Section VI.</p> <p><b>Delivery and Documents –</b></p> <p>The Delivery terms of this Contract shall be as follows:</p> <p><b>One (1) Lot Data De-Duplication Capacity Enhancements</b> shall be delivered to the PhilHealth Supply Section, Room 1501, 15<sup>th</sup> Floor CityState Centre 709 Shaw Blvd., Brgy. Oranbo, Pasig City. Risk and title will pass from the Supplier to PhilHealth upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods and Services shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are as follows:</p> <p>Upon delivery of the Goods and Services to the Project Site, the Supplier shall notify PhilHealth and present the following documents to PhilHealth:</p> <ul style="list-style-type: none"> <li>(i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</li> <li>(ii) Original and four copies delivery receipt/note, railway receipt, or truck receipt;</li> <li>(iii) Original Supplier's factory inspection report;</li> <li>(iv) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate;</li> <li>(v) Original and four copies of the certificate of origin (for imported Goods);</li> <li>(vi) Delivery receipt detailing number and description of items received signed by the authorized receiving personnel;</li> <li>(vii) Certificate of Acceptance/Inspection Report signed by the Procuring Entity's representative at the Project Site; and</li> <li>(viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site.</li> </ul> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ul style="list-style-type: none"> <li>(a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>(b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>(c) furnishing of a detailed operations and maintenance manual for each appropriate</li> </ul>

unit of the supplied Goods;

- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

#### **Spare Parts -**

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods for a period of *three (3) years*.

#### **Packaging -**

The Winning Bidder shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the GOODS' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the PhilHealth.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity

Name of the Supplier

Contract Description

Final Destination

Gross weight

Any special lifting instructions

Any special handling instructions

Any relevant HAZCHEM classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

#### **Insurance -**

The Goods supplied under this Contract shall be fully insured by the Winning Bidder in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Winning Bidder until their final acceptance by the PhilHealth.

#### **Transportation -**

PhilHealth accepts no liability for the damage of Goods during transit. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to PhilHealth until their receipt

	and final acceptance at the final destination. <b>Patent Rights –</b> The Winning Bidder shall indemnify the PhilHealth against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
10.2	NO FURTHER INSTRUCTIONS
10.4	NO FURTHER INSTRUCTIONS
13.4(c)	NO FURTHER INSTRUCTIONS
16.1	The bidders should be able to comply with the following: <ul style="list-style-type: none"> <li>• The winning bidder should work in parallel with PHILHEALTH Information Technology Management Department (ITMD) during the installation, testing, and commissioning of the Project.</li> <li>• The bidders must ensure that the proposed <b>One (1) Lot Data De-Duplication Capacity Enhancements</b> is compatible with the existing equipment of PHILHEALTH.</li> <li>• Intensive testing should be done by the winning bidder to achieve the functionality and benefits of the <b>One (1) Lot Data De-Duplication Capacity Enhancements</b>.</li> </ul>
17.3	<ul style="list-style-type: none"> <li>• The maintenance period will be for a period of three (3) years.</li> <li>• All software/hardware should be covered by warranty on services, upgrades and updates on the <b>One (1) Lot Data De-Duplication Capacity Enhancements</b> within the maintenance period which shall commence upon acceptance of the delivered goods.</li> <li>• The equipment should be covered by warranty on all parts, components, software and services for at least three (3) years including the entire storage system to where the components will be attached/installed. The warranty period for the hardware supplied shall commence upon acceptance.</li> <li>• The winning bidder must ensure that PhilHealth will be given the following for free: <ul style="list-style-type: none"> <li>○ Regular firmware updates, software upgrades, software patches, driver updates and agents for the management software.</li> <li>○ Parts replacement – FREE for the duration of the warranty period.</li> <li>○ Preventive Maintenance – FREE at least twice a year for the duration of the warranty period.</li> <li>○ Configuration – FREE assistance on equipment reconfiguration, software upgrade on-site for the duration of the warranty period.</li> </ul> </li> </ul>
17.4	The period for correction of defects within the warranty period are: <ul style="list-style-type: none"> <li>• The bidders should be able to provide expert personnel to service the <b>One (1) Lot Data De-Duplication Capacity Enhancements</b> whenever problems should occur.</li> <li>• The winning bidder should provide a 24x7 phone and technical support to PhilHealth within the three (3) years contract.</li> <li>• Expenses for the technical personnel who will provide the technical service on-site to PHILHEALTH shall be at the expense of the winning bidder.</li> </ul>
21.1	NO ADDITIONAL PROVISION



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[www.philhealth.gov.ph](http://www.philhealth.gov.ph)

**BID BULLETIN NO. 1**

**BIDDING FOR THE PROCUREMENT ONE (1) LOT DATA DE-DUPLICATION  
 CAPACITY ENHANCEMENTS**

In accordance with Republic Act 9184, this bid bulletin is hereby issued amending and/or to clarify the following provisions of the Philippine Bidding Documents on the *Bidding for the Procurement of One (1) Lot Data De-Duplication Capacity Enhancements (ITB No. DDCE 2014-009-IT)*, viz:

PROVISIONS/QUERIES	AMENDMENT / CLARIFICATION
<p><b>Page 2. Invitation to Bid</b></p> <p>2. The <i>Philippine Health Insurance Corporation</i> now invites bids on the <i>Bidding for the Procurement of One (1) Lot Data De-Duplication Capacity Enhancements</i>. Delivery of Goods is required <i>within sixty (60) calendar days after issuance and receipt by the winning bidder of the Notice to Proceed</i>. Bidders should have completed, within <u>January 1, 2013 – December 31, 2014</u>, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.</p>	<p><b>Page 2. Invitation to Bid</b></p> <p>2. The <i>Philippine Health Insurance Corporation</i> now invites bids on the <i>Bidding for the Procurement of One (1) Lot Data De-Duplication Capacity Enhancements</i>. Delivery of Goods is required <i>within sixty (60) calendar days after issuance and receipt by the winning bidder of the Notice to Proceed</i>. Bidders should have completed, within <u>January 1, 2013 – December 31, 2014</u> a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.</p>
<p><b>Page 6. Section II. Instructions to Bidders</b></p> <p><b>5. Eligible Bidders</b></p> <p>5.5 The Bidder must submit a computation of its Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, calculated as follows:</p> <p>The NFCC, computed using the following formula, must be at least equal to the ABC to be bid:</p> $NFCC = [(Current\ assets\ minus\ current\ liabilities)\ (K)]$ <p>minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.</p> <p>Where,</p> <p>K = 10 for a contract duration of one year or less, 15 for a contract duration of more than one year up to two years, and 20 for a contract duration of more than two years.</p> <p>The values of the bidder's current assets and current liabilities shall be based on the data submitted to the BIR, through its Electronic Filing and Payment System (EFPS).</p>	<p>EQUIVALENT OF K = 10</p>

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<p><b>Page 9: Section II. Instructions to Bidders</b></p> <p><b>ITB Clause 12. Documents Comprising the Bid: Eligibility and Technical Components</b></p> <p>12.1 (a) Eligibility Documents -</p> <p><u>Class "A" Documents:</u></p> <p>(ii) Mayor's permit issued by the city or municipality where the principal place of business of the prospective bidder is located;</p>	<p>The prospective bidder <b>MUST</b> submit :</p> <ul style="list-style-type: none"> <li>• <u>CY 2015 Mayor's permit</u> issued by the city or municipality where the principal place of business of the prospective bidder is located</li> <li>OR</li> <li>• <u>CY 2014 Mayor's permit AND Official Receipt for Application of the CY 2015 Mayor's Permit if not yet issued.</u></li> </ul>
<p><b>Page 24. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 5.4</b></p> <p><b>Single Contract:</b> The Bidder must have completed, within the period specified in the Invitation to Bid and ITB Clause 12.1(a) (iii), a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.</p> <p>For the selected Single Contract which is equivalent to at least fifty percent (50%) of the Approved Budget for the Contract (ABC) as stated in Annex "A", the bidder must attach a copy of the contract OR purchase order AND end-user's acceptance OR official receipt.</p> <p>For this purpose, similar contracts shall refer to Data De-Duplication Capacity Enhancements.</p>	<p><b>Page 24. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 5.4</b></p> <p><b>Single Contract:</b> The Bidder must have completed, within the period specified in the Invitation to Bid and ITB Clause 12.1 (a) (iii) <u>(January 1, 2013 to December 31, 2014)</u>, a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.</p> <p>For the selected Single Contract which is equivalent to at least fifty percent (50%) of the Approved Budget for the Contract (ABC) as stated in Annex "A", the bidder must attach a copy of the contract OR purchase order AND end-user's acceptance OR official receipt.</p> <p>For this purpose, similar contracts shall refer to Data De-Duplication Capacity Enhancements.</p>
<p><b>Page 24. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 12.1 (a) (iii)</b></p> <p>Statement of all its ongoing and completed government and private contracts within two years <u>(January 1, 2012 to December 31, 2014)</u>, including contracts awarded but not yet started, if any</p> <p><b>SEE ATTACHED FORM [Annex "A"]</b></p> <p>The accomplishment of the above form with complete information as indicated therein shall be sufficient for this requirement.</p>	<p><b>Page 24. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 12.1 (a) (iii)</b></p> <p>Statement of all its ongoing and completed government and private contracts within two years <u>(January 1, 2013 to December 31, 2014)</u>, including contracts awarded but not yet started, if any.</p> <p><b>SEE ATTACHED FORM [Annex "A"]</b></p> <p>The accomplishment of the above form with complete information as indicated therein shall be sufficient for this requirement.</p>
<p><b>Page 24. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 18.1</b></p> <p>The bid security shall be limited to Bid Securing Declaration <u>and</u> at least one (1) other form in accordance with the following amount:</p> <p>1. <u>One Hundred Seventy Nine Thousand Nine Hundred Ninety Two Pesos and Fifty Two Centavos (PhP179,992.52)</u> if bid security is in cash, cashier's/manager's check, bank draft/guarantee or</p>	<p><b>Page 24. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 18.1</b></p> <p>The bid security shall be limited to Bid Securing Declaration <u>OR</u> at least one (1) other form in accordance with the following amount:</p> <p>1. <u>One Hundred Seventy Nine Thousand Nine Hundred Ninety Two Pesos and Fifty Two Centavos (PhP179,992.52)</u> if bid security is in cash, cashier's/manager's check, bank draft/guarantee or</p>

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<p>irrevocable letter of credit;</p> <p>2. <i>Four Hundred Forty Nine Thousand Nine Hundred Eighty One Pesos and Thirty Centavos (PhP449,981.30)</i> if bid security is in Surety Bond; and</p> <p>3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security.</p>	<p>irrevocable letter of credit;</p> <p>2. <i>Four Hundred Forty Nine Thousand Nine Hundred Eighty One Pesos and Thirty Centavos (PhP449,981.30)</i> if bid security is in Surety Bond; and</p> <p>3. Any combination of the foregoing proportionate to the share of form with respect to total amount of security.</p>
<p><b>Page 25. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 18.2</b></p> <p>The Bid Securing Declaration <u>and</u> the Bid Security form as required by the BAC-ITR shall be valid until <i>May 20, 2015 (120 calendar days after the opening of bids)</i>.</p>	<p><b>Page 25. Section III Bid Data Sheet</b></p> <p><b>ITB Clause 18.2</b></p> <p>The Bid Securing Declaration <u>OR</u> the Bid Security form as required by the BAC-ITR shall be valid until <i>May 20, 2015 (120 calendar days after the opening of bids)</i>.</p>
<p><b>Page 40. Section VI Schedule of Requirements</b></p> <p>Within sixty (60) Calendar Days after the issuance and receipt of the winning bidder of the Notice to Proceed</p>	<p><b>Page 40. Section VI Schedule of Requirements</b></p> <p>The <u>Delivery and Installation</u> shall be within <b>sixty (60) Calendar Days</b> after the issuance and receipt of the winning bidder of the Notice to Proceed</p>
<p><b>Page 41. Section VII Technical Requirements</b></p> <p>2. Deliverables</p> <ul style="list-style-type: none"> <li>One (1) Unit Linear Tape Open Generation <u>66</u> (LTO-6) Tape Drive (Tabletop)</li> </ul>	<p><b>Page 41. Section VII Technical Requirements</b></p> <p>2. Deliverables</p> <ul style="list-style-type: none"> <li>One (1) Unit Linear Tape Open Generation <u>6</u> (LTO-6) Tape Drive (Tabletop)</li> </ul>
<p><b>Page 45. Section VII Technical Requirements</b></p> <p><b>11. Delivery Addresses and Date</b></p> <p>The winning bidder must deliver and install the IT equipment not more than sixty (60) days after the effective date of the contract or the issuance of the Notice to Proceed (NTP). <u>All IT equipment must be delivered at 15<sup>th</sup> floor Room 1503 CityState Centre Building, 709 Shaw Blvd., Pasig City.</u></p>	<p><b>Page 45. Section VII Technical Requirements</b></p> <p><b>11. Delivery Addresses and Date</b></p> <p>The winning bidder must deliver and install the IT equipment not more than sixty (60) days after the effective date of the contract or the issuance of the Notice to Proceed (NTP). <u>All IT equipment must be delivered at 15<sup>th</sup> floor Room 1503 CityState Centre Building, 709 Shaw Blvd., Pasig City and Comelark Data Center Bldg. 7509 A. Bonifacio Ave. Clark Freeport Zone, Clarkfield Pampanga</u></p>

**REMINDERS:**

The BAC-ITR would like to remind the Bidder/s to double check the eligibility requirements prior to submission of bid proposals.

**THIS BID BULLETIN NO. 1 (ITB NO. DDCE 2014-009-IT) SHALL FORM PART OF THE ELIGIBILITY AND TECHNICAL BID PROPOSAL TO BE SUBMITTED ON 21 JANUARY 2015. THUS, THIS SHOULD BE SUBMITTED AS PART OF THE BID PROPOSAL ON THE SAID DATE.**

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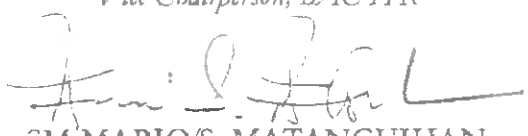
The deadline for submission of bid proposals will be on **21 January 2015, 10:30 a.m** Likewise, Opening of Bids will commence on the said date and time.

Those bidders who obtained the bidding documents for this project that would not submit their respective bid proposals on **21 January 2015** must submit a letter of non-participation stating their reasons at the Office of the Secretariat for the Bids and Awards Committees. The letter of non-participation must be submitted to SBAC on or before 5:00 p.m. of 21 January 2015.

Issued this 14<sup>th</sup> day of January 2015

  
**SVP ERNESTO V. BELTRAN**  
Chairperson, BAC-IJR

  
**VP FRANCISCO Z. SORIA, JR.**  
Vice-Chairperson, BAC-IJR

  
**SM MARIO S. MATANGUIHAN**  
Member, BAC-IJR

  
**SM NARISA PORTIA J. SUGAY**  
Member, BAC-IJR

  
**OIC-SM RONALD ALLAN C. PABLO**  
Member, BAC-IJR

On Official Business  
**OIC-SM ATTY. MA. EMILY P. ROQUE**  
Member, BAC-IJR

  
**CIO CELERINO S. CABRERA, JR.**  
Member-End-user, BAC-IJR

Adrian S. Hogenack

**THE UNIVERSITY OF CHICAGO**

190815032000447282214C-42100-7151DQC1047-5615B-

OR05931145 ToBeGrdA LHA 20-Mar-2015 04:22pm Fdd45444.00 LC

[illegible]

<input type="checkbox"/> Cash <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order	Patient Bank RCBC 01002	02/20/2015 Date	Received the Amount Stated Above. LUCILYN R. MEDINA CASHIER COLLECTING OFFICE	Billing Statement No. Billing Date	Payment (Amount Due):
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[illegible][illegible]

TOTAL	748,444.00
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Diagram illustrating the structure of a 1000 nm optical fiber. The fiber consists of a central core (diameter 100 nm) and a cladding (diameter 1000 nm). The core is divided into two sections: a 500 nm section on the left and a 500 nm section on the right. The cladding is also divided into two sections: a 500 nm section on the left and a 500 nm section on the right. The diagram includes a legend for the core and cladding materials, and a table of refractive indices for the core and cladding materials.

Material	Refractive Index
Core (Left)	1.45
Core (Right)	1.45
Cladding (Left)	1.44
Cladding (Right)	1.44

1. *Chlorophyll a* (Chl *a*)

PROCUREMENT OF ONE LOT DATA DE:

BIDDING FOR THE

NON-DEFERRED SECURITY	448.441.00
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DATE OF COLLECTION

דוד ופנחס 11

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[illegible]

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SANDZ SOLUTION PHILS., INCORPORATED

6102/02-00

ON THE 15th OF SEPTEMBER 1950

*(continued)*



Philippine Health Insurance Corporation

OFFICIAL POLICE

# FIELD THEATRE

100-443887-100

[illegible]

*[Faint handwritten notes at the bottom of the page]*

hl 3 30

PAYEE'S ACC. ONLY

ACCOUNT No.  
**2-999-00000-5**

**MANAGER'S CHECK**  
MAIN BUSINESS CENTER  
YUCHENGCO TOWER, RCBC PLAZA  
6819, AYALA AVENUE, MAKATI CITY

CHECK No.  
**0000084802**  
Chk. No. 04802 20 Mar 2015

R/T No.  
01028  
999-2



PAY TO THE ORDER OF **PHILIPPINE HEALTH INSURANCE CORPORATION**

\*\*\*\*\*48,444.00 PHP

PESOS **Four Hundred Forty Eight Thousand Four Hundred Forty Four (444,444.00)**

DOCUMENTARY STAMPS PAID

PERFORMANCE SECURITY

**2-999-00000-5**  
*[Signature]*  
AUTHORIZED SIGNATURES  
SINGLE SIGNATORY VALID ONLY FOR AMOUNTS P150,000.00 AND BELOW

⑈0000084802⑈01028⑈9992⑈0024998000005⑈