



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF BUDGET AND MANAGEMENT
 GENERAL SOLANO STREET, SAN MIGUEL, MANILA

SUPPLEMENTAL/BID BULLETIN (SBB) NO. 1

This SBB No. 1 dated March 22, 2022 for **Project No. DBM-2022-31, “DBM Data Center Maintenance and Support Services,”** is issued pursuant to Section 22.5 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184, to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of the Bidding Documents.

PARTICULARS	AMENDMENTS/CLARIFICATIONS
<p style="text-align: center;">xxx</p> <p>2. The DBM now invites bids for the above-entitled Procurement Project. Delivery of the Goods is required as specified in Section VI (Schedule of Requirements) of the Bidding Documents. Bidders should have completed within the period of March 29, 2020 to March 28, 2022 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 style="text-align: center;">xxx</p>	<p style="text-align: center;">xxx</p> <p>2. The DBM now invites bids for the above-entitled Procurement Project. Delivery of the Goods is required as specified in Section VI (Schedule of Requirements) of the Bidding Documents. Bidders should have completed within the period of March 29, 2020 2019 to March 28, 2022 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 style="text-align: center;">xxx</p>
<p style="text-align: center;">xxx</p> <p>10.2. The Bidder’s SLCC as indicated in ITB Clause 5.3 should have been completed within the period of March 29, 2020 to March 28, 2022.</p> <p style="text-align: center;">xxx</p>	<p style="text-align: center;">xxx</p> <p>10.2. The Bidder’s SLCC as indicated in ITB Clause 5.3 should have been completed within the period of March 29, 2020 2019 to March 28, 2022.</p> <p style="text-align: center;">xxx</p>

Section III. Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall:</p> <p>a. refer to data center maintenance and support services.</p> <p>If the data center maintenance and support services form part of a bigger contract, only the cost component of the data center maintenance and support services shall be considered for purposes of comparing the value thereof to at least fifty percent (50%) of the ABC; and</p> <p>b. have been completed within the period of March 29, 2020 to March 28, 2022.</p>

xxx

20	<p>The bidder with the Lowest Calculated Bid shall submit ALL of the following post-qualification requirements:</p> <p>xxx</p> <p>4. Copy of the Manufacturer Certificates/Proof of Maintenance for the following Data Center components:</p> <ul style="list-style-type: none"> i. Dunamis Generator Set ii. Schneider In-Row Cooling System iii. Schneider Integrated Monitoring Solution iv. NOVEC Fire Suppression System v. Schneider Managed Power Distribution Unit vi. Eaton Powerware Uninterruptible Power Supply <p>xxx</p>
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Section III. Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall:</p> <p>a. refer to data center BUILD-UP, maintenance, and support services.</p> <p>If the data center BUILD-UP, maintenance, and support services form part of a bigger contract, only the cost component pertaining to the data center BUILD-UP, maintenance, and support services shall be considered for purposes of comparing the value thereof to at least fifty percent (50%) of the ABC; and</p> <p>b. have been completed within the period of March 29, 2020 2019 to March 28, 2022.</p>

Xxx

20	<p>The bidder with the Lowest Calculated Bid shall submit ALL of the following post-qualification requirements:</p> <p>xxx</p> <p>4. Copy of the Manufacturer Certificates/Proof of Maintenance for the following Data Center components:</p> <ul style="list-style-type: none"> i. Dunamis Generator Set ii. Schneider In-Row Cooling System iii. Schneider Integrated Monitoring Solution iv. NOVEC Fire Suppression System v. Schneider Managed Power Distribution Unit vi. Eaton Powerware Uninterruptible Power Supply <p>Xxx</p>
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Section VI. Schedule of Requirements

xxx

Description	Delivery Date
Provision of regular preventive maintenance and support services to various data center component and equipment, in accordance with Annex “A” (Detailed Technical Specifications) of Section VII. Technical Specifications.	June 21, 2022 to June 20, 2025

xxx

**Section VI. Schedule of Requirements
(REVISED)**

xxx

Description	Delivery Date
Provision of regular preventive maintenance and support services to various data center component and equipment, in accordance with Annex “A” (Detailed Technical Specifications) of Section VII. Technical Specifications.	June 21, 2022 to June 20, 2025
SUBMISSION OF A COPY OF THE MANUFACTURER CERTIFICATE/ PROOF OF MAINTENANCE FOR THE FOLLOWING DATA CENTER COMPONENTS: A. DUNAMIS GENERATOR SET; B. SCHNEIDER IN-ROW COOLING SYSTEM; C. SCHNEIDER INTEGRATED MONITORING SOLUTION; D. NOVEC FIRE SUPPRESSION SYSTEM; AND E. SCHNEIDER MANAGED POWER DISTRIBUTION UNIT.	ON OR BEFORE JUNE 21, 2022

	<p>IN ACCORDANCE WITH ITEM 4.4 OF ANNEX “A” (DETAILED TECHNICAL SPECIFICATIONS) OF SECTION VII. TECHNICAL SPECIFICATIONS.</p>	
<p>Section VII. Technical Specifications</p> <p>Annex “A” (Detailed Technical Specifications)</p> <p>xxx</p> <p>4. Specifications and Scope of Work</p> <p>xxx</p> <p>4.2.3 A service unit of at least the same brand, model, features, and functionalities or its equivalent in case of equipment breakdown, shall be provided, at no additional cost to the DBM. The service unit shall be made available and operational within four (4) working hours from the time the problem has been reported by the DBM.</p> <p>xxx</p>	<p>Section VII. Technical Specifications</p> <p>Annex “A” (Detailed Technical Specifications) (REVISED)</p> <p>xxx</p> <p>4. Specifications and Scope of Work</p> <p>xxx</p> <p>4.2.3 A service unit of at least the same brand, model, features, and functionalities or its equivalent in case of equipment breakdown, shall be provided, at no additional cost to the DBM. The service unit shall be made available and operational within four (4) working hours from the time the problem has been reported by the DBM.</p> <p>HOWEVER, MANDATORY REPLACEMENT OF DEFECTIVE UNIT WITH A BRAND-NEW UNIT OF THE SAME OR BETTER BRAND OR MODEL SHALL BE MADE, IF NOT REPAIRED BEYOND ONE (1) MONTH FROM THE TIME THE SERVICE UNIT WAS PROVIDED, AT NO ADDITIONAL COST TO THE DBM.</p> <p>xxx</p> <p>4.4 THE CONTRACTOR SHALL SUBMIT THE FOLLOWING MANUFACTURER CERTIFICATE/PROOF OF MAINTENANCE FOR THE FOLLOWING DATA CENTER COMPONENTS ON OR BEFORE JUNE 21, 2022:</p>	

- 4.4.1 DUNAMIS GENERATOR SET
- 4.4.2 SCHNEIDER IN-ROW COOLING SYSTEM
- 4.4.3 SCHNEIDER INTEGRATED MONITORING SOLUTION
- 4.4.4 NOVEC FIRE SUPPRESSION SYSTEM
- 4.4.5 SCHNEIDER MANAGED PDU

xxx

xxx

8. Terms of Payment

8.1 Monthly payment shall be made, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:

- 8.1.1 Manufacturer Certificate/Proof of Maintenance for the following Data Center components:
 - 8.1.1.1 Dunamis Generator Set
 - 8.1.1.2 Schneider In-Row Cooling System
 - 8.1.1.3 Schneider Integrated Monitoring Solution
 - 8.1.1.4 NOVEC Fire Suppression System
 - 8.1.1.5 Schneider Managed PDU
 - 8.1.1.6 Eaton Powerware UPS
- 8.1.2 Sales Invoice / Billing Statement
- 8.1.3 Maintenance Report
- 8.1.4 Certificate of Acceptance issued by the ICTSS Director
- 8.1.5 NDA

8. Terms of Payment

8.1 Monthly payment shall be made, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:

- ~~8.1.1~~ ~~Manufacturer Certificate/Proof of Maintenance for the following Data Center components:~~
 - ~~8.1.1.1~~ ~~Dunamis Generator Set~~
 - ~~8.1.1.2~~ ~~Schneider In-Row Cooling System~~
 - ~~8.1.1.3~~ ~~Schneider Integrated Monitoring Solution~~
 - ~~8.1.1.4~~ ~~NOVEC Fire Suppression System~~
 - ~~8.1.1.5~~ ~~Schneider Managed PDU~~
 - ~~8.1.1.6~~ ~~Eaton Powerware UPS~~
- ~~8.1.2~~ 8.1.1 Sales Invoice / Billing Statement
- ~~8.1.3~~ 8.1.2 Maintenance Report
- ~~8.1.4~~ 8.1.3 Certificate of Acceptance issued by the ICTSS Director
- ~~8.1.5~~ 8.1.4 NDA **(FOR THE FIRST MONTHLY BILLING ONLY)**

<p>Statement of Single Largest Completed Contract which is Similar in Nature</p> <p style="text-align: center;">xxx</p> <p>Instructions:</p> <p>b. The SLCC should have been completed (i.e., accepted) within the period of March 29, 2020 to March 28, 2022.</p> <p>c. The similar contract for this Project shall refer to data center maintenance and support services. If the data center maintenance and support services form part of a bigger contract, only the cost component of the data center maintenance and support services shall be considered for purposes of comparing the value thereof to at least fifty percent (50%) of the ABC.</p> <p style="text-align: center;">xxx</p>	<p>Statement of Single Largest Completed Contract which is Similar in Nature (REVISED)</p> <p style="text-align: center;">xxx</p> <p>Instructions:</p> <p>b. The SLCC should have been completed (i.e., accepted) within the period of March 29, 2020 2019 to March 28, 2022.</p> <p>c. The similar contract for this Project shall refer to data center BUILD-UP, maintenance, and support services. If the data center BUILD-UP, maintenance and support services form part of a bigger contract, only the cost component pertaining to the data center BUILD-UP, maintenance and support services shall be considered for purposes of comparing the value thereof to at least fifty percent (50%) of the ABC.</p> <p style="text-align: center;">Xxx</p>
	<p>Note:</p> <p><u>Attached are the following documents which should be used as part of the Bidding Documents to be submitted by the bidders:</u></p> <ol style="list-style-type: none"> 1. Section VI. Schedule of Requirements (Revised); 2. Annex “A” (Detailed Technical Specifications) (Revised); and 3. Statement of Single Largest Completed Contract which is Similar in Nature (Revised).
<p>Queries:</p> <p>1. For the Single Largest Completed Contract which is Similar in Nature (SLCC), can you consider: (i) the period to be extended to 3 years, i.e., from March 29, 2019 to March 28, 2022; and (ii) the similar projects to include data center design build-up?</p> <p>2. For the SLCC, can you consider accumulated or multiple data center related projects and maintenance contract within the period provided?</p>	<p>Clarifications:</p> <p>1. The SLCC is revised as follows: (i) extended the period for contracts completed to 3 years; and (ii) revised the similar contracts to include data center build-up.</p> <p>2. Please note that the Project already allows the submission of two or more similar contracts for the SLCC; Provided, however, that that such submission of two or more similar contracts complies with</p>

<p>3. For the required copy of the Manufacturer's Certificate/Proof of Maintenance for the Eaton Powerware Uninterruptible Power Supply, if we (prospective bidder) cannot issue a certificate as proof of maintenance from the manufacturer, can we (prospective bidder) just submit a letter of commitment that we will just replace the unit once it will become defective and unrepairable having the same capacity with a better quality?</p> <p>4. For the required copy of the Manufacturer Certificates/Proof of Maintenance for the data center components as enumerated in item 20 of the Bid Data Sheet and item 8.1.1 of the Detailed Technical Specifications, the prospective bidder raises the following: (i) that the certificate from the manufacturer shall only be given to the one who purchased the equipment from them; (ii) since this is a maintenance project, is this requirement necessary; and (iii) to consider other bidders too, because it seems this requirement only favors the supplier who supplied the above data center specific component brands to DBM wherein it creates the impression that the requirement has been tailor-fitted to them.</p> <p>5. Since the abovementioned Manufacturer Certificates/Proof Maintenance is also required under item 8.1.1. of the Detailed Technical Specifications, does this mean that the bidder shall submit said documentary requirements for specific data center brand components if awarded or is it just the same item required in the post-qualification?</p> <p>6. Since this is a maintenance project, where skills and capabilities of the bidder's manpower who will be doing the maintenance work matter, kindly consider that instead of a manufacturer certificate, it will be replaced with a certified data center professional or equivalent who will assure that the contractor has the capability and competency and</p>	<p>Section 23.4.1.3 of the Revised Implementing Rules and Regulations of Republic Act No. 9184, i.e., sum of total contract amounts should be equivalent to at least 50% of the Approved Budget for the Contract (ABC) and the largest similar contract must be equivalent to at least half of the percentage of the ABC as required (25% of the ABC).</p> <p>3. Please see revised item 4.2.3 of the Annex "A", Detailed Technical Specifications (Revised) regarding the commitment of the Contractor on the replacement of defective units.</p> <p>4. Please note that issuance of the Manufacturer Certificate/Proof of Maintenance may include those issued to the Contractor who purchased the equipment and/or enrolled to by any person/company. Furthermore, said documents are necessary for this maintenance project to ensure that the existing data center components are entitled to the 24/7 technical support assistance and replacement of defective parts from the manufacturers themselves.</p> <p>5. Please note the exclusion of the said Manufacturer Certificates/Proof Maintenance from the list of documents to be submitted during post-qualification. However, said Manufacturer Certificates/Proof of Maintenance from the Manufacturer will be required on or before June 21, 2022 as specified in our revised bidding documents.</p> <p>6. The required assurance of the quality of the data center maintenance and support services for the Project is the Manufacturer's Certificate/Proof of Maintenance of the enumerated data center components from the Contractor.</p>
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can attest data center's availability and manageability. These will include key aspects that encompasses power, cooling, security, cabling, safety, and other relevant issues to enable a smooth data center operation and maintenance.	
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Other matters:

- The “No Contact Rule” shall be strictly observed. Bidders are not allowed to communicate with any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective March 29, 2022 right after the opening of bids.

- For guidance and information of all concerned.

Clarito Alejandro D. Magsino

Assistant Secretary

Chairperson, DBM-BAC

Section VI. Schedule of Requirements (Revised)

The delivery schedule stipulates hereafter the date of delivery to the project site.

Description	Delivery Schedule
<p>Provision of regular preventive maintenance and support services to various data center component and equipment, in accordance with Annex “A” (Detailed Technical Specifications) of Section VII. Technical Specifications.</p>	<p>June 21, 2022 to June 20, 2025</p>
<p>Submission of a copy of the Manufacturer Certificate/Proof of Maintenance for the following Data Center components:</p> <ul style="list-style-type: none"> a. Dunamis Generator Set; b. Schneider In-Row Cooling System; c. Schneider Integrated Monitoring Solution; d. NOVEC Fire Suppression System; and e. Schneider Managed Power Distribution Unit. <p>In accordance with item 4.4 of Annex “A” (Detailed Technical Specifications) of Section VII. Technical Specifications</p>	<p>On or before June 21, 2022</p>

*The period for the performance of the obligations under the Contract shall not be beyond the validity of the corresponding appropriations for the Project.

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

Name of Company/Bidder

Signature Over Printed Name of Representative

Date

**Detailed Technical Specifications
(Revised)**

1.0 Project Title

DBM Data Center Maintenance and Support Services

2.0 Objective

2.1 To provide regular preventive maintenance and support to the various Data Center (DC) components:

- 2.1.1 Dunamis 500 kVA Standby Diesel Generator Set
- 2.1.2 Eaton Powerware Uninterruptible Power Supply (UPS)
- 2.1.3 Schneider In-Row Cooling System
- 2.1.4 NOVEC Fire Suppression System
- 2.1.5 Schneider Integrated Monitoring System
- 2.1.6 Schneider Manage Power Distribution Unit (PDU)
- 2.1.7 55-inch Digital Signage TV
- 2.1.8 Synology Network Attached Storage
- 2.1.9 ZK Biometric Access Control
- 2.1.10 DAHUA Surveillance System

This Project covers equipment that should be compatible and interoperable with the existing equipment in the DBM Data Center. Hence, reference to brand names is authorized under Section 18 of the 2016 Revised IRR of RA 9184 which provides that, “[r]eference to brand names shall not be allowed **except for items or parts that are compatible with the existing fleet of equipment of the same make and brand, and to maintain the performance, functionality and useful life of the equipment**”. (emphasis supplied)

3.0 Implementation Period

The DBM Data Center Maintenance and Support Services shall cover the period of June 21, 2022 to June 20, 2025.

4.0 Specifications and Scope of Work

4.1 The contractor shall provide regular maintenance and support for the following DBM Data Center equipment:

- 4.1.1 One (1) unit of Dunamis 500 kVA Standby Diesel Generator Set with serial number **PG2003001206** including its components.
- 4.1.2 Two (2) units of Eaton Powerware UPS with serial numbers **2C26KXX01 and C2C6KXX02**.
- 4.1.3 Six (6) units of Schneider In-Row Cooling System with the following serial numbers, including their components:

<ul style="list-style-type: none">• SJK2035004579• SJK2035004580• SJK2033004172	<ul style="list-style-type: none">• SJK2035004577• SJK2033004173• SJK2035004578
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Condensers with the following serial numbers:

<ul style="list-style-type: none">• CA202000962• CA202000963• CA202000959	<ul style="list-style-type: none">• CA202000960• CA202000964• CA202000957
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Flood Receivers with the following serial numbers:

<ul style="list-style-type: none">• 8K2010Z0002• 8K1821Z0004• 8K1904Z0030	<ul style="list-style-type: none">• 8K1825Z0005• 8K1821Z0014• 8K1821Z00017
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4.1.4 One (1) set of NOVEC Fire Suppression System including its components and peripherals:

4.1.4.1 NOVEC Fire Suppression System Panel with serial number DM1720

4.1.4.2 NOVEC Fire Suppression System Cylinder Janus with serial number 18528

4.1.5 One (1) set of Schneider Integrated Monitoring System including its software licenses, components, and peripherals:

4.1.5.1 One (1) unit of 48 ports Aruba Switch JL686A with serial number CN13KPJ03X

4.1.5.2 One (1) unit of 24 ports Aruba Switch JL684A with serial number CN13KPG109

4.1.5.3 One (set) of Water Leak Detection System with the following components and peripherals:

4.1.5.3.1 Five (5) units of NetBotz Leak Rope Sensor with serial numbers:

<ul style="list-style-type: none">• 5A2028P00505• 5A2028P00480• 5A2028P00479	<ul style="list-style-type: none">• 5A2028P00631• 5A2028P00596
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4.1.5.3.2 Three (3) units of NetBotz Leak Rope Sensor extension with serial numbers:

<ul style="list-style-type: none">• 5A1951P00282• 5A2014P00044	<ul style="list-style-type: none">• 5A1951P00158
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4.1.5.4 One set of Temperature and Humidity Monitoring System with the following components and peripherals:

4.1.5.4.1 Three (3) units of NetBotz Rack Monitor 750 with serial numbers:

<ul style="list-style-type: none">• QA2034270834• QA2034270814	<ul style="list-style-type: none">• QA2034270840
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4.1.5.4.2 Three (3) units of NetBotz Rack Sensor Pod 150 with serial numbers:

<ul style="list-style-type: none">• ZA2021055186• ZA2021055385	<ul style="list-style-type: none">• ZA2021055316
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4.1.5.4.3 Twenty-nine (29) units of APC Temperature and Humidity Sensor with the following serial numbers:

• C22022002501	• C22022000356
• C22022000357	• C22022000374
• C22022002014	• C22022001988
• C22022002008	• C22022000310
• C22022000368	• C22022002022
• C22021001961	• C22022000349
• C22022002012	• C22022000346
• C22022001998	• C22022002005
• C22022000277	• C22022001933
• C22022002007	• C22022000193
• C22022000328	• C22022000189
• C22022000285	• 5A2032T09770
• C22022001999	• 5A2033T50956
• C22022000366	• 5A2032T09766
• C22022000392	

4.1.6 Forty-eight (48) units of Schneider Manage PDU with the following serial numbers:

• ZA2033060591	• ZA2033060556
• ZA2033060562	• ZA2033060565
• ZA2033060541	• ZA2033060567
• ZA2033060589	• ZA2033060572
• ZA2033060566	• ZA2033060573
• ZA2033060545	• ZA2033060554
• ZA2033060576	• ZA2033060548
• ZA2033060574	• ZA2033060559
• ZA2033060550	• ZA2033060575
• ZA2033060583	• ZA2033060544
• ZA2033060563	• ZA2033060549
• ZA2033060543	• ZA2033060560
• ZA2033060570	• ZA2033060571
• ZA2033060564	• ZA2033060547
• ZA2033060542	• 5A2021E05733
• ZA2033060584	• 5A2021E05729
• ZA2033060561	• 5A2021E05734
• ZA2033060546	• 5A2021E05723
• ZA2033060555	• 5A2021E05781
• ZA2033060558	• 5A2021E05716
• ZA2033060568	• 5A2021E05782
• ZA2033060557	• 5A2021E05665
• ZA2033060551	• 5A2021E05737
• ZA2033060553	• 5A2021E05728

4.1.7 Six (6) units of 55-inch Digital Signage TV with the following serial numbers

• 06E6HNJMC00036B	• 06E6HNJMC00041Z
• 06E6HNJMC00047F	• 702KCMR65211
• 06E6HNJMC00046W	• 702KCNL65215

4.1.8 One (1) unit of Synology Network Attached Storage with serial number **FA1955162884**, including all the SAS HDD (16TB) installed with serial numbers:

<ul style="list-style-type: none"> • ZL2C8RSP • ZL2C88H6 • ZL2C8D2M • ZL2C8RV6 • ZL2C7HQY • ZL2C8D5L 	<ul style="list-style-type: none"> • ZL2C8AAW • ZL2BD7AA • ZL2C8AGK • ZL2C88HS • ZL2C8892 • ZL2C7JH3
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4.1.9 Four (4) units of ZK Biometric Access Control with serial numbers:

<ul style="list-style-type: none"> • 6160052003790 • 6160052003789 	<ul style="list-style-type: none"> • 3929091906696 • 6160052003786
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4.1.10 One (1) set of DAHUA Surveillance System with the following components/peripherals:

- 4.1.10.1 One (1) unit of Dahua 16 channel NVR with serial number **3C04982PAMT196X**, including four (4) units of 4TB HDD.
- 4.1.10.2 One (1) unit of 16 ports POE Manage Switch
- 4.1.10.3 Two (2) units of 8 ports POE unmanaged switch
- 4.1.10.4 Seventeen (17) units of Dahua Vari-Focal HD Camera with the following serial numbers:

<ul style="list-style-type: none"> • 2L06D4BPAG00008 • 2L06D4BPAG00002 • 2L01BEPAG00013 • 2L01BEPAG00025 • 2L01BEPAG00001 • 2L01BEPAG00016 • 2L01BEPAG00001 • 2L01BEPAG00017 • 2L01BEPAG00010 	<ul style="list-style-type: none"> • 2L06D4BPAG00005 • 2L01BEPAG00004 • 2L01BEPAG00020 • 2L06D4BPAG00004 • 2L01BEPAG00015 • 6J03AA2GAGDF29F • 6J03AA2GAG3A762 • 6J03AA2GAGFFBEB
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4.2 During the maintenance period the contractor shall provide the following maintenance and technical support services:

4.2.1 Technical support shall be available twenty-four hours a day, seven days a week (24x7). Technical support may be delivered in the form of a telephone call, electronic mail, and/or on-site support as requested by the DBM.

Problems on software and hardware components, reported during the maintenance period, shall be resolved to the satisfaction of the DBM within four (4) hours from receipt of the report.

4.2.2 Defective parts/accessories of the subject ICT equipment shall be replaced, at no additional cost to the DBM, with the same or better brand, model features, quality, and functionalities if the same is not repaired within the allowable resolution time of four (4) working hours.

- 4.2.3 A service unit of at least the same brand, model, features, and functionalities or its equivalent in case of equipment breakdown, shall be provided, at no additional cost to the DBM. The service unit shall be made available and operational within four (4) working hours from the time the problem has been reported by the DBM.

However, mandatory replacement of defective unit with a brand-new unit of the same or better brand or model shall be made, if not repaired beyond one (1) month from the time the service unit was provided, at no additional cost to the DBM.

- 4.3 During the maintenance period, conduct regular Data Center components preventive maintenance in a mutually agreed schedule. The results of such shall be documented in a monthly/quarterly report with the inspection checklist for the monthly/quarterly maintenance (e.g., status report, health check, performance, updates, recommendations, etc.) submitted on the first week of the succeeding month and subject to validation of ICTSS personnel.

4.3.1 **Generator Set**

4.3.1.1 **Monthly Service Maintenance**

- 4.3.1.1.1 Checking the coolant level, add coolant if necessary.
- 4.3.1.1.2 Check the oil level, fuel system, and starting system.
- 4.3.1.1.3 Inspect the exterior of the radiator for obstructions, and remove all dirt.
- 4.3.1.1.4 Inspect charge-air cooler piping and hoses for leaks
- 4.3.1.1.5 Checking the current status of the battery to avoid any start-up hitch.
- 4.3.1.1.6 Cleaning of air filter
- 4.3.1.1.7 The oil and filter must be changed every 100 hours of operation. Draining the oil and replacing the oil filter and their disposal should be done appropriately to avoid environmental damage or liability.

4.3.1.2 **Quarterly Preventive Maintenance**

- 4.3.1.2.1 Fuel polishing if the fuel is not used and replaced in three to six months
- 4.3.1.2.2 Keep the oil level as near as possible to the full mark on the dipstick by adding the same quality and brand of oil.
- 4.3.1.2.3 Clean the batteries and charge them when the specific gravity reading is below 1.215
- 4.3.1.2.4 Inspect hoses and belts, should be replaced if not in good condition
- 4.3.1.2.5 Full load test for thirty (30) minutes at rated voltage, speed, and frequency including fuel for testing.
- 4.3.1.2.6 The reading shall be observed with calibrated meters.
- 4.3.1.2.7 All the safety controls and protective devices of the DG set shall be tested for correct calibration and operation.
- 4.3.1.2.8 Tests and operations shall be performed in the presence of the authorized representatives of the DBM. The results of the tests shall be tabulated and submitted in triplicate.

4.3.2 Power Components

4.3.2.1 Monthly Service Maintenance

- 4.3.2.1.1 Checking of the electrical connection for all DC components such as Cooling System, UPS, Generator Set, ATS, Fire Suppression System, Security Access, Video Surveillance, and Water Leak detector system.
- 4.3.2.1.2 Identification of a potential electrical problem
- 4.3.2.1.3 Survey and identify high-temperature excursions
- 4.3.2.1.4 Switchgear cleaning and inspection
- 4.3.2.1.5 Cleaning and tightening of all electrical connections and equipment enclosures
- 4.3.2.1.6 Replacement of defective power outlets and related components if necessary
- 4.3.2.1.7 Replacement of defective lighting fixture if necessary

4.3.2.2 Quarterly Preventive Maintenance

- 4.3.2.2.1 Testing of circuit breakers and switches
- 4.3.2.2.2 Perform load balancing in coordination with DBM authorized technician/engineers to prevent power overload and other power issues
 - 4.3.2.2.2.1 Study the system load during the actual operation
 - 4.3.2.2.2.2 Determine the unbalance phase load
 - 4.3.2.2.2.3 Transfer / reconfigure load to balance the phase load
 - 4.3.2.2.2.4 Monitor the balanced current load
 - 4.3.2.2.2.5 Project the additional load per phase
 - 4.3.2.2.2.6 Re-balance load as the change arise
- 4.3.2.2.3 Calibration of protective relays
- 4.3.2.2.4 Perform Megger Testing whenever shutdown of electrical equipment and power cabling system will be allowed.
- 4.3.2.2.5 All replacement units and consumables must be provided by the contractor.

4.3.3 Eaton Powerware UPS:

4.3.3.1 Monthly Service Maintenance

- 4.3.3.1.1 Run a UPS battery self-test
- 4.3.3.1.2 Record the battery health and alarm history
- 4.3.3.1.3 Check if there are no signs of battery swelling or damage
- 4.3.3.1.4 Check the airflow, should have enough airflow to keep the UPS at room temperature.
- 4.3.3.1.5 Clean the dust, change the air filter if necessary
- 4.3.3.1.6 Check the software, make sure the UPS have the most up-to-date versions

4.3.3.2 Quarterly Preventive Maintenance

- 4.3.3.2.1 Perform appropriate preventive measures to keep the UPS in good and running condition and ensure that ventilation is capable of maintaining the DC within recommended ambient temperature and humidity.
- 4.3.3.2.2 Replace batteries as necessary and fine-tune each opening.
- 4.3.3.2.3 Perform a power failure simulation to check the charging and discharging capacity of the battery.
- 4.3.3.2.4 Provide necessary recommendations to expand the life of the equipment.

4.3.4 Schneider In-Row Cooling System

4.3.4.1 Monthly Service Maintenance

- 4.3.4.1.1 Check if the cooling unit maintains the temperature setpoint.
- 4.3.4.1.2 Check if there is visible damage to the cooling unit.
- 4.3.4.1.3 Check the environmental damage (dirt, dust, debris, liquid stains) around the cooling unit installation area.
- 4.3.4.1.4 Record the room temperature near the return of the cooling unit.
- 4.3.4.1.5 Record the alarm history for the last month.
- 4.3.4.1.6 Check the condition of the air filters. Change if necessary.
- 4.3.4.1.7 Check for accumulation of debris in the drain pan. Clean as required.
- 4.3.4.1.8 Check the fans. All components should be moving freely with no signs of binding or damages.
- 4.3.4.1.9 Verify that the condensate line is flowing freely.
- 4.3.4.1.10 Inspect the electrical panel for tight connections and overheated connections from loose contact terminals.
- 4.3.4.1.11 Confirm the incoming main voltage matches the cooling unit nameplate. The measurement should be within 10% of the nameplate listing.

4.3.4.2 Quarterly Preventive Maintenance

- 4.3.4.2.1 Verify that the fan hardware is tight.
- 4.3.4.2.2 Clean the condensate drain line.
- 4.3.4.2.3 Clean the dust from door perforations.
- 4.3.4.2.4 Clean the dust from fan bezels.
- 4.3.4.2.5 Verify that the cooling operation mode is functioning properly.
- 4.3.4.2.6 Check the cleanliness of the evaporator coil. Clean if required.

4.3.5 Data Center Surveillance System Monthly Preventive Maintenance

- 4.3.5.1 Check indicator lamps condition.
- 4.3.5.2 Check all cables and conduits are properly supported, undamaged, and showing no signs of wear.
- 4.3.5.3 Check the picture quality of each camera and correct monitor selection.
- 4.3.5.4 Clean camera housings and lenses.
- 4.3.5.5 Check camera functions and movement and fields of view are free from obstruction.
- 4.3.5.6 Check the overall performance of the system.
- 4.3.5.7 Check if the NVR is recording properly.
- 4.3.5.8 Check the status of the storage if it reaches the maximum capacity.
- 4.3.5.9 Check communication and recording of all IP cameras with the NVR.
- 4.3.5.10 Check if all storage devices are functioning properly.
- 4.3.5.11 Check all power connections to ensure AC plugs are not loose or cable power frayed.
- 4.3.5.12 Check all control equipment running condition.
- 4.3.5.13 Check functionality of the Monitoring Servers, its mouse, keyboard, and related peripherals.
- 4.3.5.14 Maintenance and updates of video analytics management software.

4.3.6 Biometrics Access Control System Additional Requirements and Monthly Preventive Maintenance

4.3.6.1 Additional Requirements

4.3.6.1.1 The contractor should replace the three biometrics (two inside the Datacenter and one inside the storage room) with a push-button unlock switch.

4.3.6.1.2 The contractor should restore the damaged wall due to the removal of the three biometrics.

4.3.6.2 Monthly Maintenance

4.3.6.2.1 Visual inspection of all internal sub-assemblies and major components.

4.3.6.2.2 Maintenance and version updates of security management software.

4.3.6.2.3 Checking of primary and backup power supply.

4.3.6.2.4 Cleaning and maintenance inspection of the access control unit including its peripherals such as the electromagnetic lock mechanism, push-to-exit button, as necessary.

4.3.7 NOVEC Fire Suppression Monthly Maintenance

4.3.7.1 Check all the hose connections

4.3.7.2 Check all the cylinders and racks

4.3.7.3 Check all selector valves and control valves

4.3.7.4 Maintain the cleanliness of the complete system

4.3.7.5 Check all parts for mechanical damage

4.3.7.6 Check safety seals if undamaged

4.3.7.7 Check wirings if undamaged and in good condition

4.3.7.8 Check cylinder pressure if correct

4.3.7.9 Check of fixations

4.3.7.10 Check complete manifold for corrosion

4.3.7.11 Check outlet of the agent at the nozzle is free, not blocking

4.3.7.12 Check no use change

4.3.7.13 Check openings in the Data Center

4.3.7.14 Check function of electronic door lock

4.3.7.15 Check function of group valve

4.3.7.16 Check the triggering of the automatic fire detection system

4.3.7.17 Check agent quantity

4.3.7.18 Check electrical acoustic alarming device

4.3.7.19 Check Pneumatic alarming device

4.3.7.20 Check Optical alarming device

4.3.7.21 Check the warning panel on the Datacenter entrance door

4.3.8 Raised Floor System Monthly Maintenance

4.3.8.1 Replacement of damaged panels

4.3.8.2 Understructure adjustments

4.3.8.3 Replacement of broken edge trim

4.3.8.4 Replacement of warped/broken panels

4.3.8.5 Refurbish delaminated panels

4.3.8.6 Sub-micron filter vacuuming

4.3.8.7 Sealant applied to the sub-flooring

4.3.8.8 Spot cleaning to remove stains

4.3.8.9 Surface cleaning

4.3.8.10 Detail cleaning of entry points

4.3.9 Racks, Patch Panels, and Cablings Monthly Maintenance

- 4.3.9.1 The contractor should replace defective patch panels and cablings (both fiber and copper) if necessary.
- 4.3.9.2 The contractor should check for possible defective or worn-out accessories of data/network cabinets such as axial fan, door lock, rack mounting rail, rack connector, panels, cable routing panel, and cantilever arm. Replace if necessary.
- 4.3.9.3 The contractor should ensure the ventilation is sufficient to cope with the heat dissipated by equipment inside the racks.
- 4.3.9.4 The contractor should check the data/network cabinet’s mounting nuts, adapter, and brackets, adjust if necessary.

4.4 The Contractor shall submit the following Manufacturer Certificate/Proof of Maintenance for the following Data Center components on or before June 21, 2022:

- 4.4.1 Dunamis Generator Set
- 4.4.2 Schneider In-Row Cooling System
- 4.4.3 Schneider Integrated Monitoring Solution
- 4.4.4 NOVEC Fire Suppression System
- 4.4.5 Schneider Managed PDU

5.0 Service Level Agreement

The DBM shall maintain a Service Level Agreement with the contractor, with provisions for penalty as indicated below for the latter’s non-compliance or delay in delivery of its service/s. Penalties shall be charged against any money due or which may become due to the contractor, or collected from any securities or warranties posted by the contractor.

Component	Description	Penalty
Maintenance and Technical Support Services: <ul style="list-style-type: none">• 24/7 Support• Replacement of defective parts• Provision of service unit	As defined in item 4.2 of this DTS. as applicable covering the period from June 21, 2022 to June 20, 2025	1/10th of 1% of the contract price for the undelivered monthly portion of the contract shall be imposed per hour of delay.
Monthly Preventive Maintenance	As defined in item 4.3 of this DTS. as applicable covering the period from June 21, 2022 to June 20, 2025	1/10th of 1% of the contract price for the undelivered monthly portion of the contract shall be imposed per day of delay.
Quarterly Preventive Maintenance	As defined in item 4.3 of this DTS. as applicable covering the period from June 21, 2022 to June 20, 2025	1/10th of 1% of the contract price for the undelivered quarterly portion of the contract shall be imposed per day of delay.

6.0 Warranties of the Contractor

- 6.1 For the procurement of the project, the warranties shall include the following:
 - 6.1.1 The contractor warrants that it shall strictly conform to the terms and conditions of this Detailed Technical Specifications.
 - 6.1.2 The contractor warrants that the technical staff assigned are qualified to provide the deliverables required to the satisfaction of the DBM.
 - 6.1.3 The contractor shall secure, maintain at its own expense all registration, licenses, or permits required by national or local laws; and shall comply with the rules, regulations, and directives of regulatory authorities and Commissions. The contractor undertakes to pay all fees or charges payable to any instrumentality of government or any other duly constituted authorities relating to the use or operation of the installation.
 - 6.1.4 The contractor's technical staff assigned to support DBM shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices.
 - 6.1.5 The contractor's technical staff assigned to support DBM shall coordinate with the ICTSS in the implementation of this project.
 - 6.1.6 The contractor shall be liable for loss, damage, or injury caused directly or indirectly through the fault or negligence of its technical staff assigned. It shall assume full responsibility therefore and the DBM shall be fully released from any liability arising therefrom.
 - 6.1.7 The contractor shall neither assign, transfer, pledge, nor subcontract any part of or interest on the contract being bidded out.
 - 6.1.8 The contractor shall identify the certified technical staff who will be given authority to access and operate the Data Center and Components; and inform the DBM, through the ICTSS, within five (5) calendar days, through a formal notice, of any change or replacement of the assigned technical staff.

7.0 Confidentiality of Data

- 7.1 All technical staff assigned by the contractor shall be required to sign a Non-Disclosure Agreement (NDA).
- 7.2 The DBM Enterprise Network System, its component, parts and all products, products samples and specifications, data, ideas, technology, and technical/non-technical materials, all or any which may be derived from any of the foregoing are strictly confidential.
- 7.3 The contractor agrees to hold all the foregoing information in strict confidence. The contractor further agrees not to reproduce or disclose any confidential information to third parties without the prior written approval of the DBM.

8.0 Terms of Payment

8.1 Monthly payment shall be made, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:

8.1.1 Sales Invoice / Billing Statement;

8.1.2 Maintenance Report;

8.1.3 Certificate of Acceptance issued by the ICTSS Director; and

8.1.4 NDA (for the first monthly billing only).

**Statement of Single Largest Completed Contract
which is Similar in Nature**
[shall be submitted with the Bid]
(Revised)

Business Name: _____

Business Address: _____

Name of Client/Contact Person/Contact Number/Contact Email Address	Date of the Contract	Title of the Contract / Name of the Project	Kinds of Goods	Amount of Contract	Date of Acceptance*	End User's Acceptance or Official Receipt(s) Issued for the Contract

Submitted by : _____
(Printed Name and Signature)

Designation : _____

Date : _____

Instructions:

- a. Pursuant to Section 23.4.1.3 of the 2016 Revised IRR of RA No. 9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project, the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to the following requirements:
 - i. a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC; **OR**
 - ii. at least two (2) similar contracts:
 - (a) the aggregate amount of which should be equivalent to at least fifty percent (50%) of the ABC for this Project; **AND**
 - (b) the largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above (i.e., twenty-five percent [25%]).
- b. The SLCC should have been completed (i.e., accepted) within the period of March 29, 2019 to March 28, 2022.
- c. The similar contract for this Project shall refer to data center build-up, maintenance, and support services. If the data center build-up, maintenance, and support services form part of a bigger contract, only the cost component pertaining to the data center build-up, maintenance, and support services shall be considered for purposes of comparing the value thereof to at least fifty percent (50%) of the ABC.

* Date of Acceptance shall mean the date when the items delivered have **satisfactorily met** the requirements of the procuring entity, as evidenced by either a Certificate of Final Acceptance/Completion from the bidder's client, or an Official Receipt or a Sales Invoice (to be submitted during post-qualification).