



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 July 08, 2025, for **Project ID No. DBM-2025-39, “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.

PARTICULAR(S)/QUERY(IES)		AMENDMENT(S)/CLARIFICATION(S)	
Section III. Bid Data Sheet		Section III. Bid Data Sheet	
xxx		xxx	
ITB Clause		ITB Clause	
xxx		xxx	
20	The bidder with the Lowest Calculated Bid (LCB) shall submit ALL of the following post-qualification requirements: xxx The bidder with the LCB is likewise requested to present the following documents during post-qualification: xxx 3. Securities and Exchange Commission (SEC) Registration Certificate showing that the service provider has at least ten (10) years of experience in the Data Center Industry. xxx	20	The bidder with the Lowest Calculated Bid (LCB) shall submit ALL of the following post-qualification requirements: xxx The bidder with the LCB is likewise requested to present the following documents during post-qualification: xxx 3. Securities and Exchange Commission (SEC) Registration Certificate showing that the service provider has at least ten (10) years of experience in the Data Center IT Industry. xxx
Special Conditions of Contract		Special Conditions of Contract	
GCC Clause		GCC Clause	
	xxx		xxx

PARTICULAR(S)/QUERY(IES)	AMENDMENT(S)/CLARIFICATION(S)
	5 IN ORDER TO ASSURE THAT MANUFACTURING DEFECTS SHALL BE CORRECTED BY THE SUPPLIER, A WARRANTY SECURITY SHALL BE REQUIRED FROM THE SUPPLIER FOR A MINIMUM PERIOD OF THREE (3) MONTHS, IN CASE OF EXPENDABLE SUPPLIES, OR A MINIMUM PERIOD OF ONE (1) YEAR, IN CASE OF NON-EXPENDABLE SUPPLIES, AFTER ACCEPTANCE OF THE DBM OF THE DELIVERED GOODS. THE OBLIGATION FOR THE WARRANTY SHALL BE COVERED BY EITHER A RETENTION MONEY IN AN AMOUNT EQUIVALENT TO ONE PERCENT (1%) OF EVERY PROGRESS PAYMENT, OR A SPECIAL BANK GUARANTEE EQUIVALENT TO ONE PERCENT (1%) OF THE TOTAL CONTRACT PRICE. THE SAID AMOUNT SHALL BE RELEASED AFTER THE LAPSE OF THE

PARTICULAR(S)/QUERY(IES)	AMENDMENT(S)/CLARIFICATION(S)
	WARRANTY PERIOD, OR, IN THE CASE OF EXPENDABLE SUPPLIES, AFTER CONSUMPTION THEREOF: PROVIDED, HOWEVER, THAT THE SUPPLIES DELIVERED ARE FREE FROM PATENT AND LATENT DEFECTS AND ALL THE CONDITIONS IMPOSED UNDER THE CONTRACT HAVE BEEN FULLY MET.
Annex A DETAILED TECHNICAL SPECIFICATIONS xxx 5. SCOPE OF WORK xxx 5. 11 Vendor Qualification 5.1.1 The service provider must have at least ten (10) years of experience in the Data Center Industry based on the Securities and Exchange Commission Registration to be submitted as a post-qualification requirement. xxx 7.0 WARRANTIES OF THE SERVICE PROVIDER xxx	Annex A DETAILED TECHNICAL SPECIFICATIONS (REVISED) xxx 5. SCOPE OF WORK xxx 5. 11 Vendor Qualification 5.1.1 The service provider must have at least ten (10) years of experience in the Data Center IT industry based on the Securities and Exchange Commission Registration to be submitted as a post-qualification requirement." xxx 7.0 WARRANTIES OF THE SERVICE PROVIDER xxx

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<table><tr><th>ITEM</th><th>PERFORMAN CE CRITERIA</th><th>MINIMU M WEIGH T</th><th>MAXIM UM WEIGHT</th></tr><tr><td>I</td><td>Conformity to the technical requirements</td><td>25</td><td>30</td></tr><tr><td>II</td><td>Timeliness in the delivery of services</td><td>25</td><td>30</td></tr></table>	ITEM	PERFORMAN CE CRITERIA	MINIMU M WEIGH T	MAXIM UM WEIGHT	I	Conformity to the technical requirements	25	30	II	Timeliness in the delivery of services	25	30	<table><tr><th>ITEM</th><th>PERFORMANCE CRITERIA</th><th>MINIMUM WEIGHT</th><th>MAXIMU</th></tr><tr><td>I</td><td>Conformity to the technical requirements</td><td>25</td><td>30</td></tr><tr><td>II</td><td>Timeliness in the delivery of services</td><td>25</td><td>30</td></tr><tr><td>III</td><td>Behavior of personnel (courteous,</td><td>4020</td><td>45</td></tr></table>	ITEM	PERFORMANCE CRITERIA	MINIMUM WEIGHT	MAXIMU	I	Conformity to the technical requirements	25	30	II	Timeliness in the delivery of services	25	30	III	Behavior of personnel (courteous,	4020	45
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PARTICULAR(S)/QUERY(IES)					AMENDMENT(S)/CLARIFICATION(S)				
III	Behavior of personnel (courteous, professional and knowledgeable)	10	15			professional and knowledgeable)			
IV	Response to complaints	10	15		IV	Response to complaints	1020	15	
V	Compliance with set office policies for such services	10	10		V	Compliance with set office policies for such services	10	10	
TOTAL	PERFORMANCE RATING PASSING RATE: 80 POINTS	80	100		TOTAL	PERFORMANCE RATING PASSING RATE: 80 POINTS	80 100		
XXX					XXX				
10.0 TERMS OF PAYMENT					10.0 TERMS OF PAYMENT				
XXX					XXX				
10.2 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:					10.2 Monthly payment FOR THE REGULAR PREVENTIVE MAINTENANCE shall be made, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:				
XXX					XXX				
					Note: <u>Attached for guidance of the bidders is the Detailed Technical Specifications (Revised) which shall form part of the Bidding Documents.</u>				

Other matters:

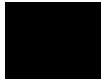
- The “No Contact Rule” shall be strictly observed. Bidders are not allowed to communicate with any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective July 15, 2025, right after the opening of bids.
- For guidance and information of all concerned.



RAMON VICENTE B. ASUNCION

Assistant Secretary

Vice Chairperson, DBM-BAC



DETAILED TECHNICAL SPECIFICATIONS (Revised)

1.0 PROJECT TITLE

DBM Data Center (DC) Maintenance and Support Services

2.0 OBJECTIVE

Establishing and maintaining a safe, dependable, and effective infrastructure for the handling, processing, and storing of digital data is the goal of DBM data center maintenance. The following DC components will guarantee continuous and uninterrupted operations.

- 2.1. Equipment refresh for the following:
 - 2.1.1. Two (2) units Uninterruptible Power Supply (UPS)
 - 2.1.2. Thirty-six (36) units of Power Distribution Unit (PDU)
- 2.2. Regular preventive maintenance services for the following:
 - 2.2.1. Dunamis 500 kVA Standby Diesel Generator Set
 - 2.2.2. Schneider In-Row Cooling System
 - 2.2.3. NOVEC Fire Suppression System
 - 2.2.4. Schneider Integrated Monitoring System
 - 2.2.5. 55-inch Digital Signage TV
 - 2.2.6. Synology Network Attached Storage
 - 2.2.7. ZK Biometric Access Control
 - 2.2.8. 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 DURATION

The DBM Data Center Maintenance and Support Services shall cover twelve (12) months from the issuance of the Certificate of Acceptance.

4.0 SPECIFICATIONS

- 4.1 Two (2) units of branded and brand-new Uninterruptible Power Supply (UPS) with the following minimum specifications:
 - 4.1.1 Input rated power of 30000 VA, input phase: three-phase and power factor of 0.99.
 - 4.1.2 Input voltage of 380 / 400 / 415 V three-phase + N and rated frequency of 50 or 60 Hz with a frequency tolerance of +/- 5%.
 - 4.1.3 Output rated power of 30000 VA, output active power of 30000 W, output current of 48 A (bypass and 43.5 A (inverter), Output phase: three-phase and output frequency of 50-60 Hz.
 - 4.1.4 Static stability +/- 0.5%, voltage distortion with nonlinear load of <- 1.5% and voltage distortion with linear load of <1%
 - 4.1.5 Operable with battery types of VRLA AGM/GEL/NiCd/Li-ion/Supercaps
 - 4.1.6 With a status LED bar, graphic touch screen display, and at least 2 slots of USB-RS232 as the communication interface.
 - 4.1.7 Operating temperature of 0 to 40 degrees Celsius
 - 4.1.8 Compliant with the following standards:
 - 4.1.8.1 L V 2014/35/EU low voltage

- 4.1.8.2 EMC 2014/30/EU electromagnetic compatibility
- 4.1.8.3 Safety IEC EN 62040-1; EMC IEC EN 62040-2 - category C2
- 4.1.8.4 RoHS compliant
- 4.2 Thirty-six (36) units of branded and brand new Power Distribution Unit (PDU) with the following minimum specifications:
 - 4.2.1 Input voltage range (L -N) of 200 V – 240 V, single Phase
 - 4.2.2 Input rated current of 32 A single phase
 - 4.2.3 Compact Hydraulic-magnetic protective circuit-breaker of 16 A
 - 4.2.4 With connector, PDU input of IEC 60309
 - 4.2.5 Can record values for Voltage (V), phase current (A), frequency (Hz), active power (kW), active energy (kWh), apparent power (kVA), power factor, circuit breaker monitoring and operating hours meter.
 - 4.2.6 The controller unit of PDU can be replaced online; the LCD supports 180° rotation of the display screen.
 - 4.2.7 Network interface of 1xRJ45, 10/100 Mbit/s and supports TCP/IP v4 and v6, HTTP, HTTPS, SSL, NTP, DHCP, NTP, Syslog, SNMP v1, v2cc and v3, XML, e-mail forwarding (SMTP), modbus/TCP.
 - 4.2.8 Supports USB interface for firmware update and data logging function.
 - 4.2.9 TFT colour display, RGB 128 x 160 pixels, LED per slot
 - 4.2.10 Compliant with CE/EAC/RoHS/WEEE standards.
 - 4.2.11 Includes universal mounting kit and assembly for deployment.

5.0 SCOPE OF WORK

- 5.2 The service provider shall conduct a pre-implementation meeting, within **five (5) calendar days** from the receipt of the Notice to Proceed (NTP), with DBM representatives so that all the necessary preparations, ideal set-up, plans and location, and other implementation matters are clearly discussed and finalized.
- 5.3 The service provider shall provide a work plan of activities for the duration of the project and a Deployment and/or Solution Architecture within a week from the pre-implementation meeting with DBM representatives. Said work plan shall be validated and subject to the approval of a designated DBM official.
- 5.4 The service provider shall deliver, install, test, and commission the following components at DBM including but not limited to within **thirty (30) calendar days** from the receipt the NTP:
 - 5.4.1 Two (2) units of Uninterruptible Power Supply (UPS)
 - 5.4.2 The service provider shall deliver, install and test the equipment inside the DBM Data Center.
 - 5.4.3 The service provider must review the equipment load per rack inside the data and other load connected to the UPS to identify single-source and dual-source configurations and to assess the transfer of the entire load to one of the old UPS units during load transferring.
 - 5.4.4 The service provider must submit a document such as but not limited to current configuration, wiring and connection layout of the UPS.
 - 5.4.5 The service provider must submit a detailed plan of activity and a fallback plan at least 7 calendar days prior to the date of activity for the replacement of UPS.
 - 5.4.6 The service provider must dismantle the existing UPS units and ensure that the removal will not cause any damage to the DBM electrical components and wiring. The service provider shall restore any damaged property caused during the dismantling and installation process to its original condition, at no additional cost to DBM.
 - 5.4.7 During the dismantling of the existing UPS units, activities must comply with safety standards and manufacturer guidelines to prevent hazards such as electrical faults or short circuits.
 - 5.4.8 The service provider shall properly handle, package, and transport the dismantled UPS units and batteries to the designated disposal or storage area as directed by DBM.

- 5.4.9 The service provider shall be responsible for the proper disposal of the UPS batteries to the designated location identified by the DBM.
- 5.4.10 The service provider must verify the output voltage and frequency of the new UPS is aligned to the actual load connected to it.
- 5.4.11 The service provider must provide training in the operations for the end-user on how to monitor and maintain the new UPS system.
- 5.4.12 The service provider must commission and configure the new PDU and connect it to the existing Data center infrastructure management (DCIM) monitoring system of DBM.
- 5.4.13 Thirty-six (36) units of Power Distribution Unit (PDU)
 - 5.4.13.1 The service provider shall deliver, install and test the equipment inside the DBM Data Center.
 - 5.4.13.2 The service provider shall identify details of the existing PDU, and the equipment/s connected.
 - 5.4.13.3 The service provider must submit a detailed plan of activity and a fall-back plan at least 7 days prior to the date of activity for the replacement of PDU.
 - 5.4.13.4 When disconnecting the PDU, the service provider must ensure that it is fully disconnected from the power supply and all outgoing connections to the equipment by using a multimeter or equivalent that can confirm that there is no live power on the unit.
 - 5.4.13.5 The service provider must carefully disconnect all power cables connected to the PDU and ensure proper labeling for reconnection.
 - 5.4.13.6 The service provider must remove any mounting brackets or screw that secures the PDU to be replaced and ensure that the new PDU is attached securely using the proper mounting.
 - 5.4.13.7 The service provider must reconnect the power cable and plug the new PDU into the input supply socket. Verify the output voltage parameters of the PDU using a multimeter or equivalent.
 - 5.4.13.8 The service provider must commission and configure the new PDU and connect it to the existing Datacenter Infrastructure Management (DCIM) monitoring system of DBM.
 - 5.4.13.9 The service provider must ensure that the PDU's outlet is aligned to the required distribution of the connected equipment.
 - 5.4.13.10 The service provider must measure the Output Voltage, current, and frequency of the PDU before reconnecting the equipment connected to it and Monitor the PDU physically and thru DCIM to ensure there are no issues.
 - 5.4.13.11 The service provider shall restore any damaged property caused during the installation process to its original condition, at no additional cost to DBM.
- 5.5 The service provider shall provide regular maintenance and support for the following DBM Data Center equipment.
 - 5.5.1 **One (1) unit of Dunamis 500 kVA Standby Diesel Generator Set** with serial number **PG2003002502** including its components.
 - 5.5.2 **Four (4) units of Schneider In-Row Cooling System** and **two (2) units of Rittal In-Row Cooling System** with the following serial numbers, including its component.

• JK2033004172 • JK2035004577 • JK2033004173 • JK2035004578	• 02345876860030001 • 02345876860030002
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Condenser with the following serial numbers:

• CA202000959 • CA202000960 • CA202000964 • CA202000957	• 12655796 • 12655796
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5.5.3 **One (1) set of NOVEC Fire Suppression System** including its components and peripherals

5.5.3.1 NOVEC Fire Suppression System Panel with serial number **DM1720**

5.5.3.2 NOVEC Fire Suppression System Cylinder Janus with serial number **18528**

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

5.5.4.1 One (1) unit of 48 ports Aruba Switch JL686A with serial number TW30LB4061

5.5.4.2 One (1) unit of 24 ports Aruba Switch JL684A with serial number TW3ALB30N4

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

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

• 5A2028P00505 • 5A2028P00480 • 5A2028P00479	• 5A2028P00631 • 5A2028P00596
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5.5.4.3.2 Three (3) units of NetBotz Leak Rope Sensor extension with serial numbers:

• 5A1951P00282 • 5A2014P00044	• 5A1951P00158
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5.5.4.4 One set of Temperature and Humidity Monitoring System with the following components and peripherals:

5.5.4.4.1 Two (2) units of NetBotz Rack Monitor 750 with serial numbers:

• QA2034270834	• QA2034270814
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5.5.4.4.2 Four (4) units of NetBotz Rack Sensor Pod 150 with serial numbers:

• ZA2021055186 • ZA2021055385	• ZA2021055316 • ZA2228002916
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5.5.4.4.3 Twenty-nine (29) units of APC Temperature and Humidity Sensor with the following serial numbers:

• C22022002051 • C22022000357 • C22022002014 • C22022002008 • C22022000368 • C22021001961 • C22022002012 • C22022001998	• C22022000356 • C22022000374 • C22022001988 • C22022000310 • C22022002022 • C22022000349 • C22022000346 • C22022002005
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• C22022000277 • C22022002007 • C22022000328 • C22022000285 • C22022001999 • C22022000366 • C22022000392	• C22022001933 • C22022000193 • C22022000189 • 5A2032T09770 • 5A2033T50956 • JA2228001570
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5.5.5 Six (6) units of 55-inch Digital Signage TV with the following serial numbers

• 06E6HNJMC00028J • 0L6MHNJW500027V • 06E6HNJMC00042V	• 06E6HNJMC00021F • 702KCMR65211 • 702KCNL65215
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5.5.6 One (1) unit of Synology Network Attached Storage with serial number **FA1951652884**, including all the SAS HDD (16TB) installed with serial numbers:

• ZL2C8RSP • ZL2C88H6 • ZL2C8D2M • ZL2C8RV6 • ZL2C7HQY • ZL2C8D5L	• ZL2C8AAW • ZL2BD7AA • ZL2C8AGK • ZL2C88HS • ZL2C8892 • ZL2C7JH3
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5.5.7 Seven (7) units of ZK Biometric Access Control with serial numbers:

• AJFT214560219 • 6160052003789 • YGT2235200073 • YGT2235200090	• CJP7222660691 • AJFT214560226 • CJP7222660689
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5.5.8 One (1) set of DAHUA Surveillance System with the following components/peripherals:

5.5.8.1 One (1) unit of Dahua 16 channel NVR with serial number 3C04982PAMT198X, including four (4) units of 4TB HDD.

5.5.8.2 One (1) unit of 16 ports POE Manage Switch

5.5.8.3 Two (2) units of 8 ports POE unmanaged switch

5.5.8.4 Seventeen (17) units of Dahua Vari-Focal HD Camera with the following serial numbers:

• 2L06D4BPAG00008 • 2L019BEPAG00008 • 2L06D4BPAG00002 • 2L019BEPAG00013 • 2L019BEPAG00025 • 2L019BEPAG00001 • 2L019BEPAG00016 • 2L06D45PAG00010 • 2L06D4BPAG00005	• 2L019BEPAG00004 • 2L019BEPAG00020 • 2L06D4BPAG00004 • 2L019BEPAG00015 • 6J03AA2GAGDF29F • 6J03AA2GAG3A762 • 6J03AA2GAGFFBEB • 4L05EACPAG54F59
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5.6 During the maintenance period, 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 with 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..

- 5.7 During the maintenance period, 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.
- 5.8 During the maintenance period, 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.
- 5.9 The service provider shall conduct knowledge transfer for Uninterruptible Power Supply (UPS) and Power Distribution Unit (PDU) within **forty-five (45) calendar days** from the receipt of NTP.
- 5.10 The service provider shall provide as-built documentation on each of the following components setup/diagram in both hard and soft copies including information on the deployment, system resource/overhead requirements on the software/IT equipment employed in the project as well as procedures for installation, configuration, integration, operation and maintenance within **forty-five (45) calendar days** from the receipt of NTP.
- Uninterruptible Power Supply (UPS)
 - Power Distribution Unit (PDU)
- 5.11 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.) to be submitted within seven (7) calendar days after the last day of the covered monthly/quarterly maintenance period and subject to validation of ICTSS personnel.
- 5.11.1 **Generator Set**
- 5.11.1.1 **Monthly Service Maintenance**
- 5.11.1.1.1 Checking the coolant level, add coolant if necessary.
 - 5.11.1.1.2 Check the oil level, fuel system, and starting system.
 - 5.11.1.1.3 Inspect the exterior of the radiator for obstructions, and remove all dirt.
 - 5.11.1.1.4 Inspect charge-air cooler piping and hoses for leaks
 - 5.11.1.1.5 Checking the current status of the battery to avoid any start-up hitch.
 - 5.11.1.1.6 Cleaning of air filter
 - 5.11.1.1.7 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.
- 5.11.1.2 **Quarterly Preventive Maintenance**
- 5.11.1.2.1 Fuel polishing if the fuel is not used and replaced in three to six months
 - 5.11.1.2.2 Keep the oil level as near as possible to the full mark on the dipstick by adding the same quality and brand of oil.
 - 5.11.1.2.3 Clean the batteries and charge them when the specific gravity reading is below 1.215
 - 5.11.1.2.4 Inspect hoses and belts, should be replaced if not in good condition

- 5.11.1.2.5 Actual load test for thirty (30) minutes at rated voltage, speed, and frequency including fuel for testing.
- 5.11.1.2.6 The reading shall be observed with calibrated meters.
- 5.11.1.2.7 All the safety controls and protective devices of the DG set shall be tested for correct calibration and operation.
- 5.11.1.2.8 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.

5.11.2 Power Components

5.11.2.1 Monthly Service Maintenance

- 5.11.2.1.1 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.
- 5.11.2.1.2 Identification of a potential electrical problem
- 5.11.2.1.3 Survey and identify high-temperature excursions
- 5.11.2.1.4 Switchgear cleaning and inspection
- 5.11.2.1.5 Cleaning and tightening of all electrical connections and equipment enclosures
- 5.11.2.1.6 Replacement of defective power outlets and related components if necessary
- 5.11.2.1.7 Replacement of defective lighting fixture if necessary

5.11.2.2 Quarterly Preventive Maintenance

- 5.11.2.2.1 Testing of circuit breakers and switches
- 5.11.2.2.2 Perform load balancing in coordination with DBM-authorized technician/engineers to prevent power overload and other power issues
 - 5.11.2.2.2.1 Study the system load during the actual operation
 - 5.11.2.2.2.2 Determine the unbalance phase load
 - 5.11.2.2.2.3 Transfer / reconfigure load to balance the phase load
 - 5.11.2.2.2.4 Monitor the balanced current load
 - 5.11.2.2.2.5 Project the additional load per phase
 - 5.11.2.2.2.6 Re-balance load as the change arise
- 5.11.2.2.3 Calibration of protective relays
- 5.11.2.2.4 Perform Megger Testing whenever shutdown of electrical equipment and power cabling system will be allowed.
- 5.11.2.2.5 All replacement units and consumables must be provided by the service provider.
- 5.11.2.2.6 Conduct thermal scanning on all Power equipment using thermal scanner

5.11.3 Uninterruptible Power Supply

5.11.3.1 Monthly Service Maintenance

- 5.11.3.1.1 Run a UPS battery self-test
- 5.11.3.1.2 Record the battery health and alarm history
- 5.11.3.1.3 Check if there are no signs of battery swelling or damage
- 5.11.3.1.4 Check the airflow, should have enough airflow to keep the UPS at room temperature.
- 5.11.3.1.5 Clean the dust, change the air filter if necessary
- 5.11.3.1.6 Check the software, and make sure the UPS have the most up-to-date versions.

5.11.3.2 Quarterly Preventive Maintenance

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

5.11.4 Schneider and Rittal In-Row Cooling System

5.11.4.1 Monthly Service Maintenance

- 5.11.4.1.1 Check if the cooling unit maintains the temperature setpoint.
- 5.11.4.1.2 Check if there is visible damage to the cooling unit.
- 5.11.4.1.3 Check the environmental damage (dirt, dust, debris, liquid stains) around the cooling unit installation area.
- 5.11.4.1.4 Record the room temperature near the return of the cooling unit.
- 5.11.4.1.5 Record the alarm history for the last month.
- 5.11.4.1.6 Check the condition of the air filters. Change if necessary.
- 5.11.4.1.7 Cleaning and checking for accumulation of debris in the drain pan.
- 5.11.4.1.8 Check the fans. All components should be moving freely with no signs of binding or damages.
- 5.11.4.1.9 Verify that the condensate line is flowing freely.
- 5.11.4.1.10 Inspect the electrical panel for tight connections and overheated connections from loose contact terminals.
- 5.11.4.1.11 Confirm the incoming main voltage matches the cooling unit nameplate. The measurement should be within 10% of the nameplate listing.

5.11.4.2 Quarterly Preventive Maintenance (Should be conducted by the Principal/accredited service partner)

- 5.11.4.2.1 Verify that the fan hardware is tight.
- 5.11.4.2.2 Clean the condensate drain line.
- 5.11.4.2.3 Clean the dust from door perforations.
- 5.11.4.2.4 Clean the dust from fan bezels.
- 5.11.4.2.5 Verify that the cooling operation mode is functioning properly.
- 5.11.4.2.6 Check the cleanliness of the evaporator coil. Clean if required.
- 5.11.4.2.7 Ensure air filters are replaced every six (6) months to maintain optimal system performance.

5.11.5 Schneider Integrated Monitoring System

5.11.5.1 Monthly Service Maintenance

- 5.11.5.1.1 Check all physical components for signs of wear or damage.
- 5.11.5.1.2 Verify that all connections are secure.
- 5.11.5.1.3 Clean dust and debris from equipment.
- 5.11.5.1.4 Check system performance metrics.
- 5.11.5.1.5 Ensure backup power sources are operational.
- 5.11.5.1.6 Check environmental controls such as temperature and humidity
- 5.11.5.1.7 Ensure equipment is within specified operating conditions.
- 5.11.5.1.8 Ensure accurate readings and measurements.

5.11.5.2 Quarterly Preventive Maintenance should be conducted by the Principal/accredited service partner)

- 5.11.5.2.1 Check for loose connections
- 5.11.5.2.2 Clean internal components and fans for optimal performance
- 5.11.5.2.3 Update and patch system software and firmware.
- 5.11.5.2.4 Verify that all updates are compatible with the integrated monitoring system.
- 5.11.5.2.5 Run a comprehensive data integrity check.
- 5.11.5.2.6 Analyze system performance and identify areas for improvement.
- 5.11.5.2.7 Optimize configuration for better efficiency.
- 5.11.5.2.8 Calibrate any monitoring equipment as needed.
- 5.11.5.2.9 Inspect and maintain environmental control systems.

5.11.6 Data Center Surveillance System

5.11.7 Monthly/Quarterly Preventive Maintenance

- 5.11.7.1.1 Check indicator lamps condition.
- 5.11.7.1.2 Check all cables and conduits are properly supported, undamaged, and showing no signs of wear.
- 5.11.7.1.3 Check the picture quality of each camera and correct monitor selection.
- 5.11.7.1.4 Clean camera housings and lenses.
- 5.11.7.1.5 Check camera functions and movement and fields of view are free from obstruction.
- 5.11.7.1.6 Check the overall performance of the system.
- 5.11.7.1.7 Check if the NVR is recording properly.
- 5.11.7.1.8 Check the status of the storage if it reaches the maximum capacity.
- 5.11.7.1.9 Check communication and recording of all IP cameras with the NVR.
- 5.11.7.1.10 Check if all storage devices are functioning properly
- 5.11.7.1.11 Check all power connections to ensure AC plugs are not loose or cable power frayed.
- 5.11.7.1.12 Check all control equipment running condition.
- 5.11.7.1.13 Check functionality of the Monitoring Servers, its mouse, keyboard, and related peripherals.
- 5.11.7.1.14 Maintenance and updates of video analytics management software.
- 5.11.7.1.15 Check the integrity of connections using IP Camera tester
- 5.11.7.1.16 Do all the things necessary to ensure reliable and consistent functioning of the Data Center Surveillance System.

5.11.8 Biometrics Access Control System Additional Requirements and Monthly and Quarterly Preventive Maintenance

5.11.8.1 Additional Requirements

- 5.11.8.1.1 The service provider shall install 12 biometrics at the different DBM identified IDF locations bundled with touchless exit button.
- 5.11.8.1.2 The service provider shall restore any damaged property caused during the installation process to its original condition, at no additional cost to DBM.

5.11.8.2 **Monthly/Quarterly Maintenance**

- 5.11.8.2.1 Visual inspection of all internal sub-assemblies and major components.
- 5.11.8.2.2 Maintenance and version updates of security management software.
- 5.11.8.2.3 Checking of primary and backup power supply.
- 5.11.8.2.4 Cleaning and maintenance inspection of the access control unit including its peripherals such as the electromagnetic lock mechanism, push-to-exit button, as necessary.

5.11.9 **NOVEC Fire Suppression Monthly and Quarterly Maintenance**

- 5.11.9.1 Check all the hose connections
- 5.11.9.2 Check all the cylinders and racks
- 5.11.9.3 Check all selector valves and control valves
- 5.11.9.4 Maintain the cleanliness of the complete system
- 5.11.9.5 Check all parts for mechanical damage
- 5.11.9.6 Check safety seals if undamaged
- 5.11.9.7 Check wirings if undamaged and in good condition
- 5.11.9.8 Check cylinder pressure if correct
- 5.11.9.9 Check of fixations
- 5.11.9.10 Check complete manifold for corrosion
- 5.11.9.11 Check outlet of the agent at the nozzle is free, not blocking
- 5.11.9.12 Check no use change
- 5.11.9.13 Check openings in the Data Center
- 5.11.9.14 Check function of electronic door lock
- 5.11.9.15 Check function of group valve
- 5.11.9.16 Check the triggering of the automatic fire detection system
- 5.11.9.17 Check agent quantity
- 5.11.9.18 Check electrical acoustic alarming device
- 5.11.9.19 Check Pneumatic alarming device
- 5.11.9.20 Check Optical alarming device
- 5.11.9.21 Check the warning panel on the Datacenter entrance door

5.11.10 **Raised Floor System Monthly and Quarterly Maintenance**

- 5.11.10.1 Replacement of damaged panels
- 5.11.10.2 Understructure adjustments
- 5.11.10.3 Replacement of broken edge trim
- 5.11.10.4 Replacement of warped/broken panels
- 5.11.10.5 Refurbish delaminated panels
- 5.11.10.6 Sub-micron filter vacuuming
- 5.11.10.7 Sealant applied to the sub-flooring
- 5.11.10.8 Spot cleaning to remove stains
- 5.11.10.9 Surface cleaning
- 5.11.10.10 Detail cleaning of entry points

5.11.11 **Racks, Patch Panels, and Cablings Monthly and Quarterly Maintenance**

- 5.11.11.1 The service provider should replace defective patch panels and cables (both fiber and copper) if necessary.
- 5.11.11.2 The service provider 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 it if necessary.
- 5.11.11.3 The service provider should ensure the ventilation is sufficient to cope with the heat dissipated by equipment inside the racks.

- 5.11.11.4 The service provider should check the data/network cabinet's mounting nuts, adapter, and brackets, adjust if necessary.

5.12 Vendor Qualification

- 5.12.1 The service provider must have at least ten (10) years of experience in the IT industry based on the Securities and Exchange Commission Registration to be submitted as a post-qualification requirement.
- 5.12.2 The service provider must have certification that the bidder is an authorized partner/reseller of the following brand to be submitted as a post-qualification requirement.
- 5.12.2.1 Dunamis Certified Partner
- 5.12.3 The service provider must have the following Certified Professionals, with each certification represented by a different individual who will oversee the maintenance of the Data Center equipment, provide technical support assistance, and handle DBM requests and activities. To be submitted as a post-qualification requirement.
- 5.12.4 License Electrical Engineer
- 5.12.5 License Mechanical Engineer
- 5.12.6 Certified Data Center Professional

- 5.13 The service provider shall submit the following certificates for the following components within forty-five (45) calendar days from receipt of the NTP.

- 5.13.1 Manufacturer Warranty
- 5.13.1.1 Uninterruptible Power Supply (UPS)
- 5.13.1.2 Power Distribution Unit (PDU)
- 5.13.2 Manufacturer Certificate/Proof of Maintenance
- 5.13.2.1 Dunamis Generator Set
- 5.13.2.2 Schneider In-Row Cooling System
- 5.13.2.3 Schneider Integrated Monitoring Solution
- 5.13.2.4 NOVEC Fire Suppression System

A certificate of acceptance shall be issued by the Director of Information and Communications Technology Systems Service (ICTSS) after all requirements are met by the service provider.

6.0 SERVICE LEVEL AGREEMENT

The DBM shall maintain a Service Level Agreement with the service provider, with provisions for liquidated damages as indicated below for their non-compliance. Liquidated damages shall be charged against any money due or which may become due to the service provider or collected from any securities or warranties posted by the service provider.

Component	Description	Liquidated Damages
Delivery, Installation, Testing and Commissioning	As defined in item 5.3, the service provider shall deliver, install, test and commission the Uninterruptible Power Supply and Power Distribution Units within thirty (30) calendar days from the receipt of Notice to Proceed.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.
Technical Support	As defined in item 5.5 as applicable covering the period of twelve (12) months from the issuance of the Certificate of Acceptance.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per hour of delay.
Replacement of Parts	As defined in item 5.6 as applicable covering the period of twelve (12) months from the issuance of the Certificate of Acceptance.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per hour of delay.

Service Unit	As defined in item 5.7 as applicable covering the period of twelve (12) months from the issuance of the Certificate of Acceptance.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per hour of delay.
Knowledge Transfer	As defined in item 5.8, the service provider shall conduct knowledge transfer for Uninterruptible Power Supply and Power Distribution Units within forty-five (45) calendar days from the receipt of Notice to Proceed.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.
Documentation	As defined in item 5.9, the service provider shall provide as-built documentation of the UPS and PDU setup/diagram in both hard and soft copies including information on the deployment, system resource/overhead requirements on the software/IT equipment employed in the project as well as procedures for installation, configuration, integration, operation and maintenance within forty-five (45) calendar days from the receipt of Notice to proceed.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.
Monthly Preventive Maintenance	As defined in item 5.10 as applicable covering the period of twelve (12) months from the issuance of the Certificate of Acceptance.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.
Quarterly Preventive Maintenance	As defined in item 5.10 as applicable covering the period of twelve (12) months from the issuance of the Certificate of Acceptance.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.

7 WARRANTIES OF THE SERVICE PROVIDER

- 7.1 The service provider warrants that it shall strictly conform to the terms and conditions of these Detailed Technical Specifications
- 7.2 The service provider warrants that the technical staff assigned are qualified to provide the deliverables required to the satisfaction of the DBM.
- 7.3 The service provider shall secure, and 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.
- 7.4 The service provider'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.
- 7.5 The service provider's technical staff assigned to support DBM shall coordinate with the Information and Communications Technology Systems Service (ICTSS) in the implementation of this project.
- 7.6 The service provider 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.
- 7.7 The service provider shall neither assign, transfer, pledge, nor subcontract any part of or interest in the contract being bidden out.
- 7.8 The service provider shall identify the certified technical staff/personnel authorized to access and operate within the project at least five (5) calendar days after signing of the contract. The DBM, through the ICTSS, shall be informed within five (5) calendar days, via formal notice, of any changes or replacements of the assigned technical staff/personnel. Additionally, a new Non-Disclosure Agreement must be executed for any such changes.
- 7.9 In order to assure that manufacturing defects shall be corrected by the supplier, a warranty security shall be required from the supplier for a minimum period of three (3) months, in case of

expendable supplies, or a minimum period of one (1) year, in case of non-expendable supplies, after acceptance of the DBM of the delivered goods.

The obligation for the warranty shall be covered by either a retention money in an amount equivalent to one percent (1%) of every progress payment, or a special bank guarantee equivalent to one percent (1%) of the total contract price.

The said amount shall be released after the lapse of the warranty period, or, in the case of expendable supplies, after consumption thereof: Provided, however, that the supplies delivered are free from patent and latent defects and all the conditions imposed under the contract have been fully met.

8 CONFIDENTIALITY OF DATA

All project personnel or technical staff of the service provider shall be required to sign a Non-Disclosure Agreement (NDA). The service provider agrees to hold all the foregoing information in strict confidence. The service provider further agrees not to reproduce or disclose any confidential information to third parties without the prior written approval of the DBM. The DBM Enterprise Network System, its components, parts, and all products, product 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.

9 PERFORMANCE REVIEW AND ASSESSMENT

9.1 The service provider shall maintain a satisfactory level performance throughout the contract period based on the following set of performance criteria:

ITEM	PERFORMANCE CRITERIA	WEIGHT
I	Conformity to the technical requirements	25
II	Timeliness in the delivery of services	25
III	Behavior of personnel (courteous, professional and knowledgeable)	20
IV	Response to complaints	20
V	Compliance with set office policies for such services	10
TOTAL	PERFORMANCE RATING	100
	PASSING RATE: 80 POINTS	

9.2 The service provider must achieve a minimum rating of "Satisfactory" with at least 80 points. Each criterion must meet the minimum weighted score in the performance evaluation.

9.3 The ICTSS shall conduct an annual assessment or evaluation one month before the end of the yearly subscription, based on the above-cited criteria, to ensure compliance of the service provider with the detailed technical specifications, as well as with the other terms and conditions imposed by the DBM during the contract period.

9.4 Based on its assessment, the DBM may pre-terminate the contract for failure of the service provider to perform its obligations thereon following the procedures prescribed under Annex "I" of the 2016 Revised IRR of RA No. 9184 - Guidelines on Termination of Contracts.

10.0 TERMS OF PAYMENT

10.1 One-time payment shall be made for the refresh of two (2) units of UPS and thirty (36) units of PDU, all of which must be branded and brand new, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:

- 10.1.1. Delivery Receipts
- 10.1.2. Manufacturer Warranty Certificates
- 10.1.3. Sales Invoice/Billing Statement
- 10.1.4. Certificate of Acceptance issued by the ICTSS Director
- 10.1.5. Non-Disclosure Agreement (NDA)
- 10.1.6. Valid and updated Tax Clearance

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

- 10.2.1 Manufacturer Certificate/Proof of Maintenance for the following Data Center components:
 - 10.2.1.1 Dunamis Generator Set
 - 10.2.1.2 Schneider In-Row Cooling System
 - 10.2.1.3 Rittal In-Row Cooling System
 - 10.2.1.4 Schneider Integrated Monitoring Solution
 - 10.2.1.5 NOVEC Fire Suppression System
- 10.2.2 Sales Invoice / Billing Statement
- 10.2.3 Maintenance Report
- 10.2.4 Certificate of Acceptance issued by the ICTSS Director
- 10.2.5 NDA
- 10.2.6 Valid and updated Tax Clearance