

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply, Delivery, Installation, Testing, Training, and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022

Government of the Republic of the Philippines



**Information and Communications Technology Service – Technology
Infrastructure Division (ICTS-TID)**

AUGUST 2023

2023c-ICTS3(012)-BII-CB-025

**Sixth Edition
October 2020**

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

BDS – Bid Data Sheet.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and

other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

IB – Invitation to Bid.

ITB – Instruction to Bidders.

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

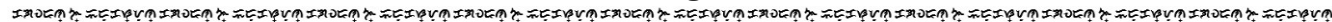
Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



Republic of the Philippines
Department of Education
Procurement Management Service



Bids and Awards Committee II

PROJECT NO. 2023c-ICTS3(012)-BII-CB-025

INVITATION TO BID

FOR THE

Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022

- The **Department of Education (DepEd)**, through the *Government of the Philippines (GOP) under DCP 2022 Capital Outlay (Continuing Fund)* intends to apply the sum of **Philippine Pesos One Hundred Eighty-Nine Million, Seven Hundred Twenty-Two Thousand, Five Hundred Seventy-Five and 01/100 (Php189,722,575.01) only**, being the total Approved Budget for the Contract (ABC) to payments under the contract for the **Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022** detailed as follows:

Lot No.	Description	Items	Approved Budget for the Contract (ABC) In Php
1	Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022	Structured Cabling (Fiber and Copper) Installation, Configuration and User Training for Network Active Components and Network and Guest Management Installation, Configuration and User Training for Cyber Security Monitoring System Data Center Upgrade Installation, Configuration and User Training for Unified IP Telephone System Installation, Configuration and User Training for UPS and Backup Power System Installation, Configuration and User Training for IP Based Unified Paging System	189,722,575.01

Bids received in excess of the ABC for the project shall be automatically rejected at bid opening.

- The **DepEd**, through the **Bids and Awards Committee (BAC) II**, now invites bids for the goods and services contemplated in this project. Expected completion of delivery of the goods and services is specified in **Section VI. Schedule of Requirements** and **Section VII. Technical Specifications** of this bidding documents.

Prospective bidder should have completed, within a period of **five (5) years** immediately preceding the deadline for submission of bids, a Single Largest Completed Contract (SLCC) similar to the contract to be bid and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority's (PSA's) Consumer Price Index (CPI), must be **at least fifty percent (50%)** of the ABC of the lot bid for.

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "*pass/fail*" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from **DepEd Procurement Management Service - BAC Secretariat Division (ProcMS-BACSD)** at **Telephone Nos. 8636-6542 or 8633-9343** and inspect the Bidding Documents at the address given below from **Monday to Friday from 8:00am to 5:00pm.**

5. For those who are interested to purchase the Bidding Documents, two (2) options are made available, to wit:

- a. A complete set of Bidding Documents may be acquired by interested Bidders from the **DepEd ProcMS-BACSD, Room M-511, 5th Floor, Mabini Building, DepEd Central Office Complex, Meralco Avenue, Pasig City**, upon accomplishing a bidder's information sheet and payment of a non-refundable fee for the Bidding Documents to the **DepEd Cashier**.

Payment in checks should be made payable to **DECS OSEC Trust.**

- b. Interested Bidders may signify their intent to purchase the Bidding Documents through email at depedcentral.bacsecretariat@deped.gov.ph by accomplishing a bidder's information sheet (**Annex "A"**). Upon receipt of the bidder's information sheet, the BAC Secretariat Division will send through email the details of the DECS OSEC Trust Fund Account for payment. Upon payment, bidders may send through email the proof of payment before the deadline for submission of bids. Upon receipt of proof of payment, the BAC Secretariat will send the electronic copy of the Bidding Documents.

Amount of Bidding Documents shall be ***Philippine Pesos Fifty Thousand and 00/100 (PhP50,000.00).***

6. The **DepEd** will hold a Pre-Bid Conference for this Project on **August 9, 2023, 09:00 A.M.** at **Bulwagan ng Karunungan, Ground Floor, Rizal Building, DepEd Complex, Meralco Ave., Pasig City**, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat on or before **08:30 A.M. of August 22, 2023** at **Bulwagan ng Karunungan, Ground Floor, Rizal Building,**

DepEd Complex, Meralco Ave., Pasig City.

Late bids shall not be accepted.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in Instructions to Bidders (ITB) Clause 14.
9. Bid opening shall be on **August 22, 2023, 09:00 A.M. at Bulwagan ng Karunungan, Ground Floor, Rizal Building, DepEd Complex, Meralco Ave., Pasig City.** Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Only **one (1) representative** per bidder will be allowed to enter inside the venue.

For the purpose of constituting a quorum, both the physical and virtual presence of the BAC members shall be considered pursuant to GPPB Resolution No. 09-2020.

10. The **DepEd** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

JELLY ANNE THERESE A. DIOSO

Technical Assistant II

Procurement Management Service - BAC Secretariat Division

Rm. M-511, 5th Floor, Mabini Bldg.

DepEd Complex, Meralco Avenue, Pasig City

Telephone Nos. 8636-6542 or 8633-9343

Email address: **depedcentral.bacsecretariat@deped.gov.ph**

12. You may visit the following websites:

For downloading of Bidding Documents:

<https://notices.philgeps.gov.ph/>

<https://www.deped.gov.ph/>

*Date of Issuance of Bidding Documents: **August 2, 2023***

(sgd)

FRANCIS CESAR B. BRINGAS

Assistant Secretary and Vice-Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **Department of Education (DepEd)**, through its **Information and Communications Technology Service – Technology Infrastructure Division (ICTS-TID)** wishes to receive bids for the **Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022**, with project identification number **2023c-ICTS3(012)-BII-CB-025**.

The Procurement Project (referred to herein as “Project”) is composed of **one (1) lot**, as described in **Section I (Invitation to Bid)**, **Section VI (Schedule of Requirements)**, and **Section VII (Technical Specifications)**.

2. Funding Information

2.1. The GOP, through the source of funding **General Appropriations Act (GAA) 2023** in the amount of **Philippine Pesos One Hundred Eighty-Nine Million, Seven Hundred Twenty-Two Thousand, Five Hundred Seventy-Five and 01/100 (Php189,722,575.01) only**.

2.2. The source of funding is the **GAA 2023** under **DCP 2022 Capital Outlay (Continuing Fund)**. Pursuant to **NBC No. 590**, the funds for this project shall be valid for release, obligation, and disbursement until **December 31, 2023**, subject to any subsequent issuance to this effect.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially

capable will be evaluated.

5.2. Foreign ownership exceeding those allowed under the rules may participate pursuant to the following:

- i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
- ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
- iii. When the Goods sought to be procured are not available from local suppliers; or
- iv. When there is a need to prevent situations that defeat competition or restrain trade.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder should have a Single Largest Completed Contract (SLCC) **at least one (1)** contract similar to the project to be bid and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority's (PSA's) consumer price index (CPI), must be **at least fifty percent (50%)** of the ABC of the lot bid for.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting as indicated in **paragraph 6** of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within a period of **five (5) years** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and

- iv. The price of other (incidental) services, if any, as listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the Bid Data Sheet (BDS), the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall not be less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid for **120 calendar days** reckoned from the date of the opening of bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies of the Bid and/or electronic copies. **Any discrepancy between the hard/paper copies and the copies contained and as presented in the USB Flash Drive shall be a ground for disqualification.**

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time at its physical address indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the specific time, date, and location mentioned in paragraph 9 of the **IB**. The Bidders' representatives who are present must sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots, and evaluation will be undertaken on a per lot basis, as the case may be. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot separately.
- 19.3. The descriptions of the lots shall be indicated in **Section VII (Technical Specifications)**, although the ABC of the lot is indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABC for the lot/s participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as separate contract per lot.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABC for the lot/s participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABC for the lot/s participated in by the prospective Bidder.

20. Post-Qualification

20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																					
5.3	<p>For this purpose, contracts similar to the projects shall be:</p> <p style="margin-left: 40px;">a. <i>Supply, Delivery, Installation, and Commissioning of Network Infrastructure that includes Structured Cabling and Network Active Components</i></p> <p style="margin-left: 40px;">b. completed within five (5) years immediately prior to the deadline for the submission and receipt of bids.</p>																				
7.1	<p>Subcontract</p> <p>Subcontracting shall NOT be allowed.</p>																				
9	<p>Request for clarifications must be in writing and submitted at least ten (10) calendar days before the deadline set for the submission and receipt of bids.</p> <p>The Procuring Entity's address is:</p> <p style="margin-left: 40px;">ASec Francis Cesar B. Bringas Bids and Awards Committee (BAC) II c/o Procurement Management Service-BAC Secretariat Division Rm. M-511, 5th Floor, Mabini Bldg. DepEd Complex, Meralco Avenue, Pasig City Telephone Nos. 8636-6542 or 8633-9343 Email address: depedcentral.bacsecretariat@deped.gov.ph</p> <p>Consistent with Section 22.5.3 of the revised IRR of RA 9184, posting on the PhilGEPS and the procuring entity's website of any supplemental/ bid bulletin shall be considered sufficient notice to all bidders or parties concerned.</p>																				
11	<p>Documents comprising the Bid: Financial Component</p> <p>The second bid envelope shall contain the financial documents for the Bid, and the Bid Form and Price Schedule shall be per lot as prescribed in the forms provided herein.</p>																				
12	<p>The price of the Goods shall be quoted DDP (DepEd Central Office and designated Schools Division Offices) or the applicable International Commercial Terms (INCOTERMS) for this Project.</p> <p>Bid prices should be written in two (2) decimal places only. Bid prices that are written in more than two (2) decimal places shall be rounded off.</p> <p>Results of bid evaluation that will exceed the ABC shall be a ground for rejection of the bid(s).</p>																				
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts indicated in this bidding documents.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="width: 10%; text-align: center;">Lot No.</th> <th rowspan="2" style="width: 20%; text-align: center;">Description</th> <th colspan="4" style="text-align: center;">Bid Security Form & Amount (if other than Bid Securing Declaration)</th> </tr> <tr> <th style="width: 20%; text-align: center;">Cost Breakdown of</th> <th style="width: 15%; text-align: center;">2% of ABC</th> <th style="width: 15%; text-align: center;">5% of ABC</th> <th style="width: 10%; text-align: center;">Bid</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Lot No.	Description	Bid Security Form & Amount (if other than Bid Securing Declaration)				Cost Breakdown of	2% of ABC	5% of ABC	Bid						
Lot No.	Description	Bid Security Form & Amount (if other than Bid Securing Declaration)																			
		Cost Breakdown of	2% of ABC	5% of ABC	Bid																

		the Approved Budget for the Contract (ABC) Php189,722,575.01	(if bid security is in cash, cashier's/ manager's check, bank draft/ guarantee or irrevocable letter of credit)	(if bid security is in Surety Bond)	Securing Declaration (no percentage required)
1	Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022	189,722,575.01	3,794,451.50	9,486,128.75	-
14.2	<p>Bid securities, other than a Bid Securing Declaration, shall be turned over to the DepEd Cash Division for custody. The Bid Securing Declaration shall be under the custody of the BAC Secretariat.</p> <p>Bid Security shall not contain any deletion, crossing-out, expunction, or any form of correction. Otherwise, DepEd may reject such security if any such intercalation, superimposition, or alteration affects any material information or feature of the document.</p>				
15	<p>Prospective bidders shall enclose their original eligibility and technical documents in a sealed envelope marked as “ORIGINAL – TECHNICAL PROPOSAL.” Copies thereof shall be similarly sealed in envelopes marked as “COPY NO. 1 – TECHNICAL PROPOSAL” and “COPY NO. 2 – TECHNICAL PROPOSAL.” In addition, the USB Flash Drive containing the soft copy of the original eligibility and technical documents shall be submitted and marked as “USB Flash Drive.” The said envelopes containing the original and the copies, and the flash drive shall then be enclosed in one single envelope marked as “TECHNICAL PROPOSAL”. On the other hand, the original of their financial documents shall be enclosed in another sealed envelope marked as “ORIGINAL – FINANCIAL PROPOSAL.” Copies thereof shall be similarly sealed in envelopes marked as “COPY NO. 1 – FINANCIAL PROPOSAL” and “COPY NO. 2 – FINANCIAL PROPOSAL.” The USB Flash Drive containing the soft copy of the original financial documents shall be submitted and marked as “USB Flash Drive.” The said envelopes containing the original and the copies, and the flash drive shall then be enclosed in one single envelope marked as “FINANCIAL PROPOSAL.” Further, the envelopes marked as “TECHNICAL PROPOSAL” and “FINANCIAL PROPOSAL” shall be enclosed and/or sealed in an outer envelope marked as “MOTHER ENVELOPE.” (See Illustration 1).</p> <p>Any discrepancy between the hard/paper copies and the copies contained and as presented in the USB Flash Drive shall be a ground for disqualification.</p> <p>Original copies of the Class “A” Eligibility Legal Documents, such as the SEC, DTI, or the CDA registration certificate and the Mayor’s Permit, may not be submitted on the date and the time of the bid submission. However,</p>				

the bidder must be able to present such original copies during post-qualification on demand by the BAC or its authorized representative(s) for validation.

To facilitate the receipt and classification of bid envelopes, **mother envelope shall be RED, the inner envelope containing Technical Proposal shall be Blue, the inner envelope containing Financial Proposal shall be Green, and the Post-Qualification Documents shall be Brown.**

Post-qualification documents may be submitted during the bidding but this does not disqualify bidders who will not submit post-qualification documents during bid submission.

Note: Each Bidder shall submit three (3) paper copies (i.e, one (1) original and two (2) copies) of its bid and two (2) USB Flash Drive electronics copies (one Technical Component and one Financial Component). The E-copy of the Price Schedule must be in the form of Excel and PDF.

Unsealed or unmarked bid envelopes, shall be rejected. However, bid envelopes that are not properly sealed and marked as required in the Bidding Documents, shall be accepted, provided that the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or for its premature opening.

Online submission of bids is not allowed.

19.3 The Project shall be awarded by lot, details as follows:

Lot No.	Description	Items	Approved Budget for the Contract (ABC) In Php
1	Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022	Structured Cabling (Fiber and Copper)	189,722,575.01
		Installation, Configuration and User Training for Network Active Components and Network and Guest Management	
		Installation, Configuration and User Training for Cyber Security Monitoring System	
		Data Center Upgrade	
		Installation, Configuration and User Training for Unified IP Telephone System	
		Installation, Configuration and User Training for UPS and Backup Power System	
		Installation, Configuration and User Training for IP Based Unified Paging System	

19.5 The computation of a prospective bidder's NFCC must be at least equal to the ABC to be bid, calculated as follows:

NFCC – [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be

	<p style="text-align: center;"><i>started</i></p> <p>The values of the domestic bidder’s current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR.</p> <p>For purposes of computing the foreign bidders’ NFCC, the value of the current assets and current liabilities shall be based on their Audited Financial Statements prepared in accordance with international financial reporting standards. (23.5.1.4a)</p> <p>If the prospective bidder submits a committed Line of Credit, it must be at least equal to ten percent (10%) of the ABC of the lots bid for: Provided, that if the same is issued by a foreign Universal or Commercial Bank, it shall be confirmed or authenticated by a local Universal or Commercial Bank.</p> <p>In any case, the NFCC computation or committed line of credit, must be sufficient for all the lots or contracts bid. The NFCC computation shall be in accordance with the prescribed form.</p> <p>In case of a joint venture, the NFCC shall be computed based on the Audited Financial Statements of the LOCAL LEAD PARTNER, <u>unless it is shown by clear proof that the other partners to the joint venture have infused capital investment to support the operation of the local lead partner to ensure compliance with the obligations under the contracts in this project, in which case the NFCC of the foreign joint venture or the minority partner of the joint venture shall be computed.</u></p> <p>For this purpose, the local lead partner shall be that person/organization/company identified in the Joint Venture Agreement or in the Letters of Intents (for potential JV partners) shown to have the controlling stakes in the JV.</p> <p>For easier reference, participating JVs or prospective JV partners must indicate in their JVAs or Letters of Intent the local lead partner appointed by them.</p>
20.1	<p>Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BAC that it submitted the LCB, the Bidder shall submit the following requirements:</p> <p>a. Latest income and business tax returns: Printed copies of the Electronically filed Income Tax and Business Tax Returns with copies of their respective Payment Confirmation Forms for the immediately preceding calendar/tax year from the authorized agent bank;</p> <p>Only tax returns filed and taxes paid through the BIR Electronic Filing and Payment System (EFPS) shall be accepted.</p> <p><i>NOTE: The latest income and business tax returns are those within the last six months preceding the date of bid submission.</i></p>

- b. Other appropriate licenses and permits required by law and stated in the **BDS**.

During post-qualification, upon demand by the BAC or its representative(s), a bidder with the lowest calculated bid shall be able to present/submit the following:

- a. Documents to verify or support its Statement of On-going and/ or Statement identifying its Single Largest Completed Contract which may consist of the following: appropriate and clear duly signed contracts, purchase orders, agreements, notices of award, job orders, or notices to proceed, with the corresponding duly signed certificate of completion, delivery receipts, inspection and acceptance reports, certificates of final acceptance or official receipts.
- b. For validation purposes, original copy Class "A" Eligibility documents.
- c. Certified true copy documents as issued by the certifying/authorized agencies.

During post-qualification, compliance of the goods offered with the requirements specified in this bidding document shall be determined, including the following:

- i. **As per Section 34.3, b.ii, item a, of the IRR of R.A. 9184**, verification of availability and commitment, and/or inspection and testing for the required capacities and operating conditions, of equipment units to be owned/leased/under purchase by the bidder for use in the contract under bidding, as well as checking the performance of the bidder in its ongoing government and private contracts, if any of these ongoing contracts shows:
 - a. Negative slippage of at least fifteen percent (15%) in any one project or a negative slippage of at least ten percent (10%) in each of two (2) or more contracts;
- ii. **As per Section 34.3, b.iii, items a to c, of the IRR of R.A. 9184**, verification and/or inspection and testing of the goods/product, aftersales and/or maintenance capabilities, in applicable cases, as well as checking the following:
 - a. Delay in the partial delivery of goods amounting to ten percent (10%) of the contract price in its ongoing government and private contracts;
 - b. If any of these contracts shows the bidder's failure to deliver or perform any or all of the goods or services 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; or

c. Unsatisfactory performance of the supplier's obligations as per contract terms and conditions at the time of inspection.

If the BAC verifies any of these deficiencies to be due to the bidder's fault or negligence, the BAC shall disqualify the bidder from the award, for the procurement of goods.

In case of foreign bidders, a Certificate of Authentication from the Department of Foreign Affairs shall be required for each document submitted, i.e. the Class "A" documents or its equivalent that are written in foreign language, translated to English, and duly authenticated by the appropriate Philippine foreign service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines.

To facilitate post-qualification, the bidder at its option may submit in advance, i.e., on the deadline for submission and receipt of bids, above requirements and other documents required in *Section II. ITB 20.1*

The envelope shall be placed in a **brown** envelope and marked:

ITB 20.1 Documents

Name of Project: _____

Bid Opening Date: _____

Name of Bidder: _____

Failure to submit above requirements within the required timeframe or a finding against the veracity of any such documents or other documents submitted for the project shall be a ground for disqualification of the bidder for the award and the enforcement of the bid securing declaration.

***Section IV. General Conditions of
Contract***

1. **Scope of Contract**

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. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract are provided in the **Special Conditions of Contract (SCC)**.

2. **Advance Payment and Terms of Payment**

2.1. Advance payment of the contract amount is provided under Annex "D" of the 2016 revised IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. **Performance Security**

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. **Inspection and Tests**

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, 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.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 5.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 5.2. 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, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery terms applicable under this Contract shall be DDP (Duties Delivered Paid) in accordance with INCOTERMS. Risk and title to the goods shall pass from the Supplier/Service Provider to DepEd upon receipt and final acceptance of the goods at the designated delivery site (DepEd Central Office).</p> <p>The services to be rendered and goods to be delivered by the Supplier/Service Provider must be in accordance with the Technical Specifications, Terms of Reference, and other requirements indicated in the bidding documents, and/or as may be reasonably deemed necessary to effect the full and timely completion of the required services and delivery of the goods.</p> <p>For purposes of this Clause, the representative of the Department of Education (DepEd) at the delivery site shall be the ICTS-TID through DepEd Central Office – ENGR. MARVIN M. DELA CRUZ, for the End-User Unit, and the MR. ALBERT ALANO, for the Inspectorate Team.</p> <p>Upon delivery of the goods to the delivery site, the Supplier/Service Provider shall notify DepEd and present the following documents:</p> <ol style="list-style-type: none"> 1. Original and four copies of the Supplier’s/Service Provider’s invoice showing goods’ description, quantity, unit price, and total amount; 2. Original and four copies of the Supplier’s/Service Provider’s Warranty Certificate, where applicable; 3. Original (white copy) and scanned copy stored in CD/DVD/Flash Drive of the pre-numbered Inspection and Acceptance Report (IAR) and Delivery Receipt (DR) detailing number and description of goods received and duly signed and dated by the ARP. <p>In case the Supplier/Service Provider encounters conditions impeding timely completion of the required services and delivery of the goods, it must promptly notify DepEd in writing within five (5) calendar days from notice of such conditions, and any request for work suspension and/or contract period extension shall be promptly done in writing as soon as circumstances for such requests have become apparent. The Supplier/Service Provider must provide sufficient proof to support any request for work suspension and/or contract period extension.</p>

Incidental Services -

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. The Supplier is required to provide the following services, including additional services, if any:

1. Performance or supervision of on-site assembly and/or start-up of the supplied goods;
2. Furnishing of tools required for assembly and/or maintenance of the supplied goods;
3. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
4. 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 obligation; and
5. Training of the DepEd personnel at the Supplier's/Service Provider's plant and/or on-site in assembly, start-up, operation, maintenance and/or repair of the supplied goods.

Packaging -

The Supplier/Service Provider shall provide such packaging 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.

Insurance -

The goods under this Contract shall be fully insured by the Supplier/Service Provider 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 Supplier/Service Provider until their final acceptance by DepEd.

Transportation -

Transport of the goods shall be arranged by the Supplier/Service Provider, and related costs shall be included in the contract price.

DepEd accepts no liability for the damage of goods during transit. Risk and title to the goods will not be deemed to have passed to DepEd until its receipt and final acceptance at the final destination, through its authorized receiving personnel.

Intellectual Property Rights -

The Supplier/Service Provider shall indemnify DepEd against all third-party

claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof.

2.2	<p>Schedule of Payment</p> <p>The method and conditions of payment to be made to the Supplier/Service Provider through the Government disbursement procedure within sixty (60) days after the date of acceptance of services and goods at the project site and upon submission of documents under this contract shall be as follows:</p> <p>Advance Payment</p> <p>An advance payment not to exceed 15% of the contract amount shall be allowed and paid within 60 calendar days from the signing of the contract. An irrevocable letter of credit or bank guarantee of an equivalent amount must be submitted and shall remain valid until the goods are delivered, and accompanied by a claim for advance payment.</p> <p>The Supplier/Service Provider may submit a request for payment based on progress reports which shall be attached to the progress billing and include the following:</p> <ol style="list-style-type: none"> 1. Actual value of services rendered and quantity of goods delivered based on the schedule of delivery and other relevant terms and conditions of the contract; 2. Statement of Account; 3. Duly signed Delivery Receipts; 4. Duly signed Inspection and Acceptance Reports, including certification by Supplier/Service Provider, as approved by the duly authorized DepEd representative, that the required services have been rendered, and the goods have been delivered and/or properly installed and commissioned in accordance with the contract; 5. Approved commissioning and testing report, as applicable; 6. Approved engineering design, as applicable; and 7. Certificate of Acceptance for the conduct of training, including the training manual and signed attendance sheet, as applicable. <p>Other documents in support of a request for payment may be required by DepEd pursuant to existing disbursement, accounting, and auditing rules and procedures.</p> <p>Progress Payment</p> <p>Progress payment shall be paid to the Supplier/Service Provider in accordance with the following schedule:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Milestone</th> <th style="width: 35%;">Description</th> <th style="width: 20%;">Works to be accomplished</th> <th style="width: 30%;">Percentage of the Contract Price</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Full operation of the following:</td> <td></td> <td style="text-align: center;">30% (within 60 calendar days upon receipt of</td> </tr> <tr> <td></td> <td>Mabini Building</td> <td style="text-align: center;">Complete</td> <td></td> </tr> </tbody> </table>			Milestone	Description	Works to be accomplished	Percentage of the Contract Price	1	Full operation of the following:		30% (within 60 calendar days upon receipt of		Mabini Building	Complete	
Milestone	Description	Works to be accomplished	Percentage of the Contract Price												
1	Full operation of the following:		30% (within 60 calendar days upon receipt of												
	Mabini Building	Complete													

			<p>Installation, Configuration and Acceptance of the following:</p> <ul style="list-style-type: none"> • Distribution and Access Switch • Access Point • Structured Cabling • IP Telephony • IP Based Communication System 	NTP)
		Mabini Data Center	<p>Complete Installation, Configuration and Acceptance of the following</p> <ul style="list-style-type: none"> • Smart Data Center System • Core Switch • Data Center Fire Detection, Alarm, and Suppression System • Door Access Control Data Center • Airconditioning Unit (3 units) • Next Generation Firewall • Link Load Balancer • Hyper-Converged Infrastructure Appliance (HCIA) • Network Detection and Response Data Processor • Network Detection and Response Data Collector • Endpoint Detection and Response • IT Helpdesk System • Unified endpoint 	

			management and security software <ul style="list-style-type: none"> • IT Operations Management: Applications Management Software • UPS & Backup Power System 	
2	Full operation of the following: <ul style="list-style-type: none"> • Aguinaldo Building • Alonzo Building • Bonifacio Building • Rizal Building 	Complete Installation, Configuration and Acceptance of the following: <ul style="list-style-type: none"> • Distribution and Access Switch • Access Point • Structured Cabling • IP Telephony • IP Based Communication System 		45% (within 80 calendar days upon receipt of NTP)
3	Full operation of the following:			15% (within 90 calendar days upon receipt of NTP)
	Dorm D	Complete Installation, Configuration and Acceptance of the following: <ul style="list-style-type: none"> • Access Switch • Access Point • Structured Cabling 		
	Dorm E	Complete Installation, Configuration and Acceptance of the following: <ul style="list-style-type: none"> • Access Switch • Access Point • Structured Cabling 		
	Amphitheater	Complete Installation, Configuration and Acceptance of the following: <ul style="list-style-type: none"> • Structured Cabling 		

4	Delivery of Knowledge Transfers and Training Sessions	Complete Installation, Configuration and Acceptance of the following: <ul style="list-style-type: none"> • Training for Access Point Fundamentals • Training for Enterprise Networking • Switching Solution • Training for Network and Guest • Management System • Training for Security Monitoring 	10% (within 100 calendar days upon receipt of NTP)
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Final Payment

Final payment shall consist of the full and final payment of the unpaid inspected and accepted goods, and services, subject to the submission of the required documents under the bidding documents.

(NOTE: The Supplier/Service Provider must furnish a copy of the above-mentioned documents to DepEd Accounting and the End-user [ICTS-TID]) and the Contract Management Division of the Procurement Service, Central Office).

Payments shall be subject to the Warranty provision in the form of either retention money in an amount equivalent to five percent (5%) of every progress payment or the Contract Price, or a special bank guarantee in the amount equivalent to five percent (5%) of the Contract Price as provided under Section 62.1 of R.A. 9184 and its Revised IRR.

Release of retention money shall be at the expiration of the warranty period, or the remaining amount in case it has been utilized pursuant to the warranty provision.

3	<p>Performance Security</p> <p>The Performance Security shall be posted in favor of DepEd, and shall be forfeited in the event it is established that the Supplier is in default of any of its obligation under the contract. The Supplier/Service Provider shall be responsible for the extension of its performance security and/or renewal of its performance security whenever necessary and/ without need of prior notice or instruction from DepEd, to ensure that it is in force and effect for the whole duration of the contract delivery period and until a Certificate of Final Acceptance is duly issued.</p> <p>Performance Security shall not contain any deletion, crossing-out, expunction, or any form of correction. Otherwise, DepEd may reject such security if any such intercalation, superimposition, or alteration affects any material information, or feature of the document.</p>
4	<p>Inspection</p> <p>Pursuant to DO 041, s. 2021, inspection or pre-delivery inspection (PDI), where applicable for goods to be delivered, shall be conducted by DepEd through the duly designated Inspectorate Team. The inspection or PDI shall be made upon notice to the DepEd of the readiness of the goods for inspection.</p> <p>The Supplier/Service Provider shall coordinate with DepEd, through the Procurement Management Service-Contract Management Division (ProcMS-CMD), on the conduct of inspection or pre-delivery inspection (PDI). Any request for inspection or PDI shall be done in writing, and contain the following information:</p> <ol style="list-style-type: none"> 1. Project Title and Contract Number; 2. Specific goods for inspection; 3. Quantity of goods for inspection; 4. Venue/Address of inspection site; and 5. Proposed schedule of inspection which must be at least ten (10) calendar days from the submission of the letter request. <p>The request for inspection or PDI shall be addressed to ProcMS-CMD, and must be submitted through email at procms.cmd@deped.gov.ph.</p> <p>Pre-delivery and Pre-implementation Conference shall be conducted prior to the inspection of goods by the designated DepEd Inspectorate Team, as may be necessary or applicable.</p> <p>Prior to and for purposes of inspection, the Supplier/Service Provider shall ensure convenient access to the goods for inspection. The Supplier/Service Provider shall assign personnel to undertake the handling, unpacking, assembly, commissioning, disassembly, repacking, resealing, and sorting of the goods prior to, during, and after the inspection.</p> <p>DepEd shall have the right to visit and inspect the Supplier's/Service Provider's premises covered by the Contract, at any time or stage of contract implementation, to monitor and assess the Supplier's/Service Provider's capacity to discharge its contractual obligations.</p>

Goods with defects or non-compliant with the required technical specifications upon delivery shall be rejected, orally or in writing, by DepEd and replaced by the Supplier/Service Provider in accordance with the warranty provision of this bidding document. The Supplier/Service Provider shall replace all rejected goods within five (5) calendar days from its receipt of the Notice of Rejection from the recipient schools. The replacement goods shall be subject to re-inspection.

Goods are considered defective when they are unfit for the use for which it is intended or its fitness for such use is diminished to such an extent that, had DepEd been aware thereof, it would not have acquired it or would have given a lower price for it.

Defects in the goods can either be patent or latent. A patent defect is one that is apparent to the buyer or normal observation. It is an apparent or obvious defect. On the other hand, a latent defect is one that is not apparent to the buyer by reasonable observation. A latent defect is hidden or one that is not immediately determinable.

Post-production tests:

1. Joint commissioning, testing and acceptance test (all active components are power up and functional); and
2. Quality and functionality of the installation and/or equipment and the workmanship.

Other tests to be performed:

1. The winning bidder must conduct commissioning and testing ensure the maximum level of reliability by reviewing and testing the physical design of the CCTV Solution as a whole.
2. The winning bidder may request for approval of schedule for joint commissioning and testing from ICTS -TID and DepEd Inspectorate team at least seven (7) days after all active components are power up and functional.
3. The joint testing scope will include the quality and functionality of the installation and/or equipment and the workmanship.
 - a. Fiber Splicing and Termination Acceptance Test (**Annex C**)
 - b. Cat6 Cabling Acceptance Test (**Annex D**)
 - c. Switch Stress and Functionality Test. (**Annex E**)
 - d. CCTV Functionality Test (**Annex F**)
4. Any defect(s) observed on the commissioning and testing shall be properly documented. All defect(s) shall be rectified by the contractor within five (5) days and subject for another specific joint acceptance test provided that the activities are free of cost to DepEd.
5. Upon completion of Commissioning and Testing, DepEd shall issue a certificate of acceptance subject for payment.

5

Warranty

Comprehensive and on-site warranty for the non-expendable goods shall be applied, detailed as follows:

Items	Warranty Period
<ul style="list-style-type: none"> a. UPS, 3.0KVA b. UPS, 1.5KVA c. Gent set d. ATS e. Day tank 	One (1) year warranty certificate shall be issued by the solution provider
<ul style="list-style-type: none"> a. Core switch b. Distribution Switch c. PoE Access Switch d. Wireless Access Point e. Wireless Controller 	Three (3) years warranty certificate shall be issued by the solution provider
<ul style="list-style-type: none"> a. Network Management System b. Guest and BYOD Management System 	Three (3) years subscription and warranty
<ul style="list-style-type: none"> a. Endpoint Security b. Security Intelligent Threat Detection and Response Platform c. Security Operations Management d. IT Helpdesk System (Enterprise) e. IT Operations Management: Applications Management software (Enterprise) f. Unified Endpoint Management and Security Software (Enterprise) g. NGFW Unified Threat Protection (UTP) (IPS, Advanced Malware Protection, Application Control, URL, DNS & Video Filtering, Antispam Service) h. Link Load balancer i. Hyper-Converged Infrastructure Appliance 	Three (3) years subscription and warranty
<ul style="list-style-type: none"> a. Smart cabinets b. Air Conditioning Unit c. Door Access Control System d. Fire Suppression System e. Lighting System 	Three (3) years warranty
<ul style="list-style-type: none"> a. IP Telephony System b. IP Based Public Address System 	Three (3) years warranty
<ul style="list-style-type: none"> a. Installed structured cabling system 	Twenty-five (25) years system warranty certificate shall be issued by the Cabling System Manufacturer
<ul style="list-style-type: none"> a. Products (fiber patch panels, pigtails, adapter plates, fiber patch cords) b. Fiber Optic Cables c. Products (Patch Panel, UTP jack, Faceplate, patch cord) d. UTP Cable 	Twenty-five (25) years warranty

The indicated warranty period shall reckon from the date of issuance of the Certificate of Final Acceptance by the DepEd that the delivered goods have been duly inspected and accepted (i.e. final acceptance).

Payments shall be subject to the Warranty provision in the form of either retention money in an amount equivalent to five percent (5%) of every progress payment or the Contract Price, or a special bank guarantee in the amount equivalent to five percent (5%) of the Contract Price as provided under Section 62.1 of R.A. 9184 and its Revised IRR. Replacement and/or repair of test materials shall only be applicable if printing defects and/or non-compliance with the technical specifications are discovered prior to test administration.

Replacement and/or repair of the goods may be requested within the aforementioned warranty period. Replacement of the goods shall be made within seven (7) calendar days upon claim or request therefor. The said replacement must be of the same branding specification and installed prior to pull-out of the defective or unrepairable unit/s. On-site repair of the goods must be made on the next business day upon claim or request therefor.

In case the Supplier/Service Provider opts for retention money, the amount shall only be released after the lapse of the entire warranty period, unless during the remainder of the warranty period, the retention money is substituted with a special bank guarantee as prescribed above.

The **Special Bank Guarantee** shall not contain any deletion, crossing-out, expunction, or any form of correction. Otherwise, DepEd may reject such security if any such intercalation, superimposition, or alteration affects any material information, or feature of the document.

Section VI. Schedule of Requirements

A. List/Description of Goods /Services

The delivery schedule expressed below stipulates the date of delivery to the project site.

Lot No.	Description	Items	Delivery Period
1	Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022	Structured Cabling (Fiber and Copper)	Within one hundred (100) calendar days upon receipt of Notice to Proceed (NTP)
		Installation, Configuration and User Training for Network Active Components and Network and Guest Management	
		Installation, Configuration and User Training for Cyber Security Monitoring System	
		Data Center Upgrade	
		Installation, Configuration and User Training for Unified IP Telephone System	
		Installation, Configuration and User Training for UPS and Backup Power System	
		Installation, Configuration and User Training for IP Based Unified Paging System	

B. Delivery Schedule

Complete delivery of the goods and performance of services shall be made within **one hundred (100) calendar days** upon receipt of the NTP.

C. Delivery Sites

Goods shall be delivered and inspected, and services shall be rendered at the DepEd Central Office, DepEd Complex, Meralco Avenue, Pasig City.

Statement of Compliance

I/We have read and understood the requirements/scope of service/terms of reference and conditions stipulated herein and shall therefore comply to the conditions set forth in the Contract with respect to this **Section VI. Schedule of Requirements**, if our bid is considered for award.

Name and Signature of Bidder’s Authorized Representative

***Section VII. Technical
Specifications and
Terms of Reference***

Technical Specifications

Item	Specification	Statement of Compliance
		<p><i>[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 specification 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 Bidder’s 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 applicable laws and issuances.]</i></p>

A. General Specification

ITEM NO.	SPECIFICATIONS	STATEMENT OF COMPLIANCE (STATE COMPLY OR NOT COMPLY)	BIDDER'S ACTUAL OFFER
1	The prospective bidder shall be involved in System Integration and shall have at least ten (10) years' experience in undertaking similar project.		
2	The prospective bidder must have a Project Management Professional (PMP) in-charge in Project Management. Must have the following qualifications: Bachelor's Degree, three (3) years' work experience, trained and certified in project management. Must attach certification and curriculum vitae and written commitment stating that the expert shall work for the project once awarded the contract.		
3	The prospective bidder must have Certified Data Center Professional (CDCP) for the checking of the deployment in the field. Must have the following qualifications: Bachelor's Degree, one (1) year work experience, trained and certified Data Center Professional. Must attach certification and curriculum vitae of each nominated expert and written commitment stating that the professional expert shall work for the project once awarded the contract.		
4	The prospective bidder must have Certified Data Center Expert (CDCE) for the design of the data center. Must have the following qualifications: Bachelor's Degree, licensed professional engineer, five (5) years' work experience, trained and certified Data Center Expert. Must attach certification and curriculum vitae of each nominated expert and written commitment stating that the professional expert shall work for the project once awarded the contract.		

5	<p>The Prospective bidder must have a Certified Safety Officer to impose safety measures during the deployment. Must have the following qualifications: Bachelor's Degree, one (1) year work experience, trained and certified by DOLE accredited training center. Must attach certification and curriculum vitae of each nominated Expert and written commitment stating that the expert shall work for the project once awarded the contract.</p>		
6	<p>The prospective bidder shall have at least three (3) personnel certified designer or installer by the Cabling Manufacturer. Must have the following qualifications: Bachelor's Degree, one (1) year work experience, trained and certified by the Cabling Manufacturer. Must attach certification and curriculum vitae of each nominated Expert and written commitment stating that the expert shall work for the project once awarded the contract.</p>		
7	<p>The prospective bidder shall have at least one (1) Certified Network Engineer on the network equipment. Must have the following qualification: Bachelor's Degree, three (3) years work experience. Must attach certification and curriculum vitae of each nominated Expert and written commitment stating that the expert shall work for the project once awarded the contract.</p>		
8	<p>The prospective bidder shall submit Letter of Authorization and Certificate of Approval from the Cabling System Manufacturer where the cabling will be implemented, stating that the prospective bidder is an authorized business partner and certified installer and designer of that Cabling System Manufacturer.</p>		
9	<p>The prospective bidder shall submit Letter of Warranty Support from the Cabling System Manufacturer stating that the</p>		

	Cabling Installation of the Solution Provider shall be supported by 25 years System Warranty to be issued by the Cabling System Manufacturer (not by the Solution Provider) which would cover products, cables, and application guarantee for 25 years.		
10	Solution provider should have a PCAB license for communication facilities.		
11	The prospective bidder must provide a solution that is branded and brand new. The solution must be from a reputable international brand with local presence and local depot of parts and supplies		
12	The prospective bidder shall perform the supply, delivery, installation, configuration, fine-tuning and testing of System		
13	The prospective bidder shall deliver the necessary software, hardware, materials, licenses and other components not mentioned in the specification but are required to operate the System		
14	The prospective bidder shall perform the necessary fine-tuning, upgrade, redesign or replacement of appliance to ensure the optimum performance of the System		

B. Detailed Technical Specification

Detailed Specific Requirements			
Item No.	Technical Specifications	STATEMENT OF COMPLIANCE (State Comply or Not Comply)	BIDDER'S ACTUAL OFFER
1	FIBER OPTIC & COPPER STRUCTURED CABLING MATERIALS (1 LOT)		
1.1	Fiber Optic Cabling – Single Mode		
	The supplier shall carry out design, engineering, installation, cabling connections, testing, and commissioning of the Fiber Backbone system		
	a. Fiber Optic Cable <ul style="list-style-type: none"> • 24 Core Fiber Cable, Multi-tube SM9/125, CST, PE 		

	<ul style="list-style-type: none"> • 2 Runs 24-Core Fiber Cable • Applications: <ul style="list-style-type: none"> • Suitable for direct buried, aerial or duct installation • Compliances: <ul style="list-style-type: none"> • ITU-T G652D / ITU-T G657A1 • ANSI/TIA 568-C.3 • IEC-794 • RoHS • Optical performance: <ul style="list-style-type: none"> • Wavelength : 1310 • Fiber Cable Cladding: 9/125 μm 		
	<p>b. Fiber Optic Pigtail</p> <ul style="list-style-type: none"> • Fiber optical pigtail, SM 9/125μm, 0.9mm LSOH • Length: 1 meter • Connector Type: LC • Insertion Loss: $\leq 0.3\text{dB}$ • Interchange capability (1000 times): $< 0.1\text{dB}$ • Impact 1.5mm drop, 8 times: $< 0.1\text{dB}$ • Working temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ • Compliances: <ul style="list-style-type: none"> • Meets with TIA/EIA-568-B.3 and ISO/IEC 11801 specifications for insertion loss and return loss • RoHS compliant 		
	<p>c. Fiber Optic Patch cord</p> <ul style="list-style-type: none"> • Fiber Optic Patch Cord Single Mode (SM) 9/125μm, 5 meters • Compliances: <ul style="list-style-type: none"> • Meets TIA/EIA 568-B.3 standard • Fiber meets ITU G652D & G655 and IEC60793-2 • Connectors meet IEC60874 and IEC 61754 • Environmental and mechanical tests based on IEC 61300-2-1,2,4,5,6,17, IEC61300-3-1,4,11,IEC 60332, IEC60754-1,2 • RoHS compliant 		
	<p>d. Fiber Optic Patch Panel & Accessories</p> <ul style="list-style-type: none"> • Main Body: 19" Fiber Optic Patch Panel • Color: Black • FEATURES: <ul style="list-style-type: none"> • Three adapter slots can be covered by SC, ST, LC or FC-D-flange adapter panels of 4,6 or 8 ports, or with blank panels. • Splice cassette with cable routings available • Position of splice cassette adjustable 		

	<ul style="list-style-type: none"> ● Fits all standard 19 inch racks, height / port number: 1U / 24ports ● Smooth sliding tray with self lock function can be opened up to an 155° angle ● Material/thickness of body and adapter panels: cold rolled steel/1.6 mm ● TIA/EIA 568-B.3 compliant <ul style="list-style-type: none"> ○ RoHS compliant ● Patch Panel adapter accessories: <ul style="list-style-type: none"> ● 8port LC adapter panel, duplex, black SM adapter fully loaded 		
	<p>e. Fiber Optic cable additional requirement:</p> <ul style="list-style-type: none"> ● All Fiber optic cabling materials (Fiber cable, fiber pigtails, fiber adaptors, fiber enclosures and fiber trays) should be of the same brand. ● The fiber optic cable should be terminated through fusion splicing only. ● Proper labels should be done during installation. <ul style="list-style-type: none"> ○ Water and temperature resistant ○ Laminated and with strong adhesive ○ Fade-resistant ○ Easy peel with no sticky residue ○ Chemical and abrasion-resistant ● Testing of fiber links (OTDR test). ● Documentation of Test have at least results. 		
1.2	Fiber Optic Cabling - Multimode		
	<p>a. Fiber Optic Cable</p> <ul style="list-style-type: none"> ● 6 Core Fiber Cable, OM4, Multimode, Indoor ● 2 Runs 6-Core Fiber Cable ● Applications: <ul style="list-style-type: none"> ● Suitable for aerial installation ● Long distance communication system. ● Outside plant environments ● Compliances: <ul style="list-style-type: none"> ● ITU-T G652D / ITU-T G657A1 ● ANSI/TIA 568-C.3 ● IEC-794 ● RoHS 		

	<p>b. Fiber Optic Pigtail</p> <ul style="list-style-type: none"> ● Fiber optical pigtail, OM4, 0.9mm LSOH ● Length: 1meter ● Connector Type: LC ● Insertion Loss: ≤0.3dB ● Interchange capability (1000 times): <0.1dB ● Impact 1.5mm drop, 8 times: <0.1dB ● Working temperature: -20°C~60°C ● Compliances: <ul style="list-style-type: none"> ● Meets with TIA/EIA-568-B.3 and ISO/IEC 11801 specifications for insertion loss and return loss ● RoHS compliant 		
	<p>c. Fiber Optic Patch cord</p> <ul style="list-style-type: none"> ● Fiber Optic Patch Cord OM4 Multimode (MM) 50/125um, 5meter ● Compliances: <ul style="list-style-type: none"> ● meets TIA/EIA 568-B.3 standard ● meets ITU G651 standard ● connectors meet IEC60874 and IEC 61754 ● environmental and mechanical tests based on IEC 61300-2-1,2,4,5,6,17, IEC61300-3-1,4,11,IEC 60332, IEC60754-1,2 ● RoHS compliant 		
	<p>d. Fiber Optic Patch Panel & Accessories</p> <ul style="list-style-type: none"> ● Main Body: 19” Fiber Optic Patch Panel ● Color: Black ● FEATURES: <ul style="list-style-type: none"> ● Unique modular design and full range of accessories allows to assembly a patch panel as needed ● Three adapter slots can be covered by SC, ST, LC or FC-D-flange adapter panels of 4,6 or 8 ports, or with blank panels. ● Splice cassette with cable routings available ● Position of splice cassette adjustable ● Fits all standard 19 inch racks, height / port number: 1U / 24ports ● Smooth sliding tray with self lock function can be opened up to an 155° angle ● Material/thickness of body and adapter panels: cold rolled steel/1.6 mm 		

	<ul style="list-style-type: none"> ● Material of splice cassette and cable routing: ABS ● TIA/EIA 568-B.3 compliant <ul style="list-style-type: none"> ○ RoHS compliant ● Patch Panel adapter accessories: <ul style="list-style-type: none"> ● 8port LC adapter panel, duplex, black ● MM adapter fully loaded 		
	<p>e. Fiber Optic cable additional requirement:</p> <ul style="list-style-type: none"> ● All Fiber optic cabling materials (Fiber cable, fiber pigtailed, fiber adaptors, fiber enclosures and fiber trays) should be of the same brand. ● The fiber optic cable should be terminated through fusion splicing only. ● Proper labels should be done during installation. <ul style="list-style-type: none"> ○ Water and temperature resistant ○ Laminated and with strong adhesive ○ Fade-resistant ○ Easy peel with no sticky residue ○ Chemical and abrasion-resistant ● Testing of fiber links (OTDR test). ● Documentation of Test results. 		
1.3	Copper Structured Cabling (800 nodes)		
	<p>The proposed structured cabling solution shall provide the following components:</p> <ul style="list-style-type: none"> ● CAT6 Cable ● UTP Jack Module ● 24 Patch Panel Loaded ● Single/Dual Faceplates ● CAT6 Patch Cords ● Roughing-ins 		
	<p>UTP Cable Specification</p> <ul style="list-style-type: none"> ● The UTP cable should be of Category 6 class. ● The electrical performance of the UTP cable should have undergone a certified performance in a 4-conductor configuration up to 100 meters that meets the standards of ANSI/TIA-568-C.2, ISO 11801 2nd Edition Class E and IEC 61156-5 Category 6 channel and component requirements 		

	<ul style="list-style-type: none"> • The UTP conductor should be 23 AWG solid copper and insulated with HPDE • The UTP flame rating is at least PVC (CM). • The UTP sheath thickness should be 0.5mm nominal 		
	<p>UTP Jack Module Specification</p> <ul style="list-style-type: none"> • The UTP jack module should conform to TIA/EIA-568C.2, ISO/IEC 11801 and EN50173-1 specifications. • The UTP jack module should accept 22-26 AWG solid cables. • The UTP jack Dielectric Strength should 1000V RMS for 1min. • The UTP jack module Current Rating should be 1.5Amp Max. • The UTP jack module Contact Resistance should be 10MΩ Min. • The UTP jack module Insulation Resistance should be 2mΩ per contact. • The UTP jack module Material Flame Rating should be UL94 V-0. 		
	<p>Patch Panel</p> <ul style="list-style-type: none"> • The patch panel should mounts to standard EIA 19" racks • The capacity of the patch panel should be 24 ports • The patch panel style should be Flat 		
	<p>Faceplate</p> <ul style="list-style-type: none"> • The faceplate should be able to hold 1 ports • The faceplate should be able to hold 2 ports • The faceplate should be white 		
	<p>Patch Cord</p> <ul style="list-style-type: none"> • The patch cord should be 3 meters in length (for endpoint) and 1 meter (for connection to patch panel) • The UTP conductor should be 24 AWG solid copper and insulated with HPDE. • The UTP flame rating is at least PVC (CM). • The patch cord should be using RJ45 contacts 50μ inch gold plated • The patch cord should be using Molded snag proof boot • The patch cord should be compliant with Cat.6 standards as: <ul style="list-style-type: none"> • ANSI/TIA 568-C.2:2011 • ISO/IEC 11801 Class E:2011 (Edition 2.2) • CENELEC EN 50173-1:2011 • CENELEC EN 50288-6-2:2013 		

	<ul style="list-style-type: none"> • IEC 61935-2:2010 (Edition 3.0) • IEC 61156-6:2012 • ETL Verified • The patch cord should be Compliant with safety standards as: <ul style="list-style-type: none"> • IEC 60332-1-2:2004 • RoHS compliant (EU Directive 2011/65/EC) 		
	<p>Structured Cabling system additional requirements</p> <ul style="list-style-type: none"> • All structured cabling materials (UTP cable, UTP jack module, patch panel, faceplate, etc..) should be of the same brands. • UTP cables dropped in office can use molding. • All data ports installed in the workstation and in the patch panel should be labeled. • All data ports should be tested with a cable tester that tests the following: Pair lengths, opens, shorts, splits, crossed, straight through and cable ID. 		
1.3	<p>IDF Cabinet 22U Wall Mount (35 units) The supplier shall supply, deliver and install wall mount data cabinet as IDF to areas specified:</p> <ul style="list-style-type: none"> • 600 mm (deep) x 600 mm (wide) x 1080 mm (height) • Wall mount cabinet offers and economical and cost effective solution for smaller installations where space is limited • Cable entry from top and bottom • Up to 60 kgs static loading capacity • Toughened glass front door with over 180 deg angle • Lockable side door east to open for installation • Installed with two (2) Fan Unit 		
2	NETWORK ACTIVE COMPONENTS		
	The supplier shall supply, deliver, install, configure and conduct tests to Wired and Wireless Networks		
2.1	Core Switch (2 units)		
	The switch must be rack-mountable (into standard 19" wide racks)		
	The switch must not be larger than a 3RU form factor		
	The switch must have at least support 32 x 40 Gigabit Ethernet ports : but also support 16 x 100 Gigabit Ethernet ports		
	The switch must support high-capacity up		

	to 3.0 Terabit switching fabric and 1 Bpps packet forwarding provide powerful data transfer capability		
	The switch must support the following transceivers: <ul style="list-style-type: none"> • SFP • SFP+ • QSFP+ • QSFP28 		
	The proposed switch must be managed by a single network monitoring system		
	The proposed networking solution must be of the same brand for ease of management		
	The switch must support at least 16GB DDR SDRAM with 16GB of Flash Memory		
	The switch must support up to 80K of MAC address entries		
	The switch must support Address Resolution Protocol (ARP)		
	The switch must support Routing Information Protocol (RIP and RIPv2)		
	The switch must support Open Shortest Path First		
	The switch must support Border Gateway Protocol 4 (BGP-4)		
	The switch must support virtual technology to make a pair of switches into one virtual switch		
	The switch must support VRF for network segmentation		
	The switch must support Dual Hot-swappable power Supplies		
	The switch must support full IPv6		
	The switch must support IEEE 802.1p Classification and priority tagging		
	The switch must support policy based QoS		
	The switch must support PBR and routes map		
	The switch must support Out-of- band 10/100/1000T Management port		
	The switch must provide a visual way of identifying the switch for maintenance		
	The switch must support built-in RFID for easy identification		
	The switch must support SNMPv1/2c/3		
	The switch must support the following management interface: Console, telnet and SSH		
	Must include 3-meter 40G QSFP+ Cable		
2.2	Distribution Switch (10 units)		
	The switch must be rack-mountable (into standard 19" wide racks)		
	The switch must not be larger than a 3RU		

	form factor		
	The switch must support 24 x 1/10/25 + 4 x 40/100 Gigabit Ethernet ports		
	The switch must support high capacity up to 1.8 Terabit switching fabric and 900 Mpps packet forwarding provide powerful data transfer capability		
	The switch must support the following transceivers: <ul style="list-style-type: none"> • SFP • SFP+ • QSFP+ • QSFP28 		
	The proposed switch must be managed by a single network monitoring system		
	The proposed networking solution must be of the same brand for ease of management		
	The switch must support at least 16GB DDR SDRAM with 16GB of Flash Memory		
	The switch must support up to 80K of MAC address entries		
	The switch must support Address Resolution Protocol (ARP)		
	The switch must support Routing Information Protocol (RIP and RIPv2)		
	The switch must support Open Shortest Path First The switch must support Border Gateway Protocol 4 (BGP-4)		
	The switch must support virtual technology to make a pair of switches into one virtual switch		
	The switch must support VRF for network segmentation		
	The switch must support Dual Hot-swappable power supplies		
	The switch must support full IPv6		
	The switch must support IEEE 802.1p Classification and priority tagging		
	The switch must support policy based QoS		
	The switch must support PBR and routes map		
	The switch must support Out-of- band 10/100/1000T Management port		
	The switch must provide a visual way of identifying the switch for maintenance		
	The switch must support built-in RFID for easy identification		
	The switch must support SNMPv1/2c/3		
	The switch must support the following management interface: Console, telnet and SSH		
	Must include necessary SFP+ and QSFP+		

	transceivers necessary to run the system		
2.3	Access PoE Switch (32 units)		
	The switch must be rack-mountable (into standard 19" wide racks)		
	The switch must support 24 port Full Poe + 4 x 1/10 Gigabit Ethernet ports (With 8 MultiGig Ports up to 10G)		
	The switch must support high-capacity up to 350 Gbps switching fabric and 260 Mpps packet forwarding provide powerful data transfer capability		
	The proposed switch must be managed by a single network monitoring system		
	The proposed networking solution must be of the same brand for ease of management		
	The switch must support at least 4GB DDR SDRAM with 4GB of Flash Memory		
	Supports stacking of up to 160 Gbps stacking bandwidth		
	The switch must support up to 32K of MAC address entries		
	The switch must support Address Resolution Protocol (ARP)		
	The switch must support Routing Information Protocol (RIP and RIPv2)		
	The switch must support Open Shortest Path First		
	The Switch must support PoE+ based on IEEE 802.3at. The switch is able provide up to 30 Watts of power per port to PoE devices		
	The switch must support 9KB Jumbo Frames		
	The switch must support Out-of- band 10/100/1000T Management port		
	The switch must support SNMPv1/2c/3		
	The switch must support the following management interface: Console, telnet and SSH		
	Must include 3-meter 10G SFP+ Cable		
	Must include necessary SFP+ transceivers necessary to run the system		
2.4	Wireless Access Point (230 units)		
	The proposed solution must be performance Dual Radio 802.11ax AP with OFDMA and Multi-User MIMO (MU-MIMO)		
	The proposed solution must support up to 5.38 Gbps data rates on 802.11AX		
	Support 4x4 uplink/downlink MU-MIMO with four spatial streams		
	Supports 802.11ax Target Wait Time (TWT) to support low-power client devices		
	Auto sensing link speed		

	(100/1000/2500/5000 Base-T)		
	The access point shall be able to support full radio features at 802.3at		
	The access point must support flexible radio assignment that supports dual-radio capability		
	The wireless network can track anomalies and allows on demand review of packets		
	The access point shall support containers to host applications		
	Supports Serial Console Interface		
	Supports Kensington security slot or equivalent		
	The proposed solution must support an integrated Bluetooth Low-Energy (BLE)		
	Supports USB 2.0 host interface (Type A connector)		
2.5	Access Controller for Wireless Access Points (2 units)		
	The proposed solution must be self-contained, integrated, overlay solution, not requiring upgrades or enhancements to existing routers and switches		
	The proposed solution must have a chassis and box 1+1 fast failover redundancy with sub-second failover time		
	The proposed solution must support same software, configurations and product functionality across all platforms in the product family proposed		
	The proposed solution must be a cluster in Active Standby Mode		
	Supports up to maximum of 500 access points		
	Support up to 10,000 number of concurrent connected wireless clients		
	Supports 2 x 10GB Multigig Fiber Connections and 4 x 1GB Copper Connections		
	Supports Real Time RF Management in your wireless network		
	Supports Layer 2 and Layer 3 roaming capabilities		
	Supports Opportunistic Key Caching (OKC)		
	The system must support Pairwise Master Key (PMK) caching		
	Support Command line interface to control and manage all aspects of the system on the controller/switch		
	The Wireless Controller should be of the same brand as the Wireless Access Point		
	SSH must be supported and must be the		

	default CLI access technology. Real-time configurable system changes, not requiring reboots or re-compilation to affect changes		
2.6	Guest and BYOD Management (1 lot), 3 years subscription		
	The proposed solution must not lock users out of access but offer remediation or access through a Guest VLAN. This is to isolate non-compliant systems; restricts and controls access of devices that are not managed, including but not limited to BYOD		
	The proposed solution should be configurable to provide user notifications (e.g. provide Support Numbers to call) without IT involvement. This increases usability and staff efficiency in large scale deployments		
	The proposed solution must be OS and Hardware Agnostic for Device Detection & Isolation. With the increase in Mobile devices (and BYOD) it is essential to incorporate a solution which can detect systems regardless of their operating system		
	The proposed solution must allow access control rules specification, with granularity and detail, for all types of resources and using any secure remote access method/mode. The rules definition should be granular and support at least the following parameters: <ul style="list-style-type: none"> • UserID (user/group pair and authentication repository) • Device Classification (Identity and Integrity) • Location • Resource/Device Type • Date/ Time • Posture • Access Method • Custom conditions 		
	Support RADIUS & TACACS+		
	The solution must be able to perform automated access control enforcement during emergency or outbreak. Lateral movement (user-to-user traffic) will be restricted in this mode to prevent further outbreak		
	The proposed solution must support MAC Address Authentication/Authorization for authorized network users		

	The proposed solution must have the ability to allow Guest to request access via a web portal for User Name & Password		
	The proposed solution should have the ability to treat non-validated devices as BYOD devices		
	The proposed solution should support OS Independent detection – any OS can be detected and controlled by policy		
	The proposed solution must have Security Dashboard		
	The proposed solution must have granular User Access controls with ability to limit management functions and views for various support organizations		
	The solution must provide high-availability features, providing stateful failover (without loss of information) and zero downtime (Active-Active or Active-Standby clustering) in the event of a component failure for all modules that eventually comprise the solution		
	The solution must have internal Certificate Authority (CA) support		
	The solution must be able to provide automatic certificate revocation when a device is lost/stolen		
2.7	NMS Server Appliance (2 units)		
	CPU: 2.1 Ghz 4110/85W 8C/DDR4		
	HDD: 600GB 12G SAS 10K RPM		
	NETWORK: Quad Port 1GB Adapter		
	RAM: 32GB DDR4		
	RAID CONTROLLER: 12GB Modular RAID controller		
2.8	Network Management (250 nodes), 3 years subscription		
	Should be a comprehensive solution to manage, visualize and monitor the network from a single graphical interface for wired and wireless network devices		
	The solution to provide single point of operations for network-wide automation and control		
	The solution should support policy based automation that simplifies and abstracts the network management complexities of deployment & provisioning across enterprise		
	The solution should have support for standard southbound protocols that enables it to communicate with breadth of network devices		
	The solution should offer real-time		

	network performance insights for the entire enterprise		
	The solution shall be possible to allocate the above access level per configuration type and/or devices type.		
	The solution shall support local and external user authentication mechanisms.		
	Support for TACACS based authentication		
	The solution shall support multiple user roles with different operational privileges.		
	The solution shall permit multiple concurrent user logins		
	Proposed solution should auto discover the network elements as well as their current status		
	Solution should support multiple protocols for the devices to be discovered		
	Automation tool should support multiple protocols to retrieve the network information		
	The Solution should have option to automate and schedule discovery process		
	The Solution should support Subnet-based auto-discovery of in-band and out-of-band network elements		
	Supports regular polling of network devices		
	Proposed solution should be able to display the current running configuration of the network device The solution should allow the user to connect to the devices to execute CLI		
	The proposed should allow the user to view the Layer2/Layer 3 topology maps in real-time graphical representation		
	The proposed solution shall provide the capability to search devices in the topology map		
	The proposed solution allow to create/customize the layout of the topology maps and save them to view later		
	The proposed solution shall be possible to perform troubleshooting from network maps view		
	The proposed solution shall allow the user to import software images from different sources		
	The proposed solution should have a central repository to store all the Software images		
	The proposed solution should have the capability to activate the image later based on the network conditions		

	The proposed solution shall have a provision to re-schedule the failed software image upgrade tasks		
	The proposed solution shall be able to provide a high level and drill down reporting views of the status of network environment.		
2.9	<p>40GB LR Fiber Optic Modules Single Mode (44 units)</p> <ul style="list-style-type: none"> ● SFP module should be compatible for single-mode fiber ● SFP module should have Duplex LC connector, operates on standard single-mode fiber-optic link spans of up to 10 km 		
2.10	<p>10GB SR Fiber Optic Modules Multimode Mode (70 units)</p> <ul style="list-style-type: none"> ● SFP module should be compatible for single-mode fiber ● SFP module should have Duplex LC connector, operates on standard OM4 multi-mode fiber-optic link spans of up to 400 m 		
2.11	<p>TRAINING Conduct Training and providing appropriate certification must be issued to the participants.</p> <p>a. Training for Access Point Fundamentals</p> <ol style="list-style-type: none"> i. Mode of Delivery: Face to Face Training ii. No. of Trainees: 5 Pax <p>b. Training for Enterprise Networking Switching Solution</p> <ol style="list-style-type: none"> i. Mode of Delivery: Face to Face Training ii. No. of Trainees: 5 Pax <p>c. Training for Network and Guest Management System</p> <ol style="list-style-type: none"> i. Mode of Delivery: Face to Face Training ii. No. of Trainees: 5 Pax 		
3.0	CYBER SECURITY MONITORING SYSTEM		
3.1	NEXT GENERATION FIREWALL (2 units)		
	The supplier shall carry out installation, configuration & testing of an application-centric, scalable, and secure SD-WAN solution with Next Generation Firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or branch level. Protects against cyber		

	threats with system-on-a-chip acceleration and industry-leading secure SD WAN in a simple, affordable, and easy-to-deploy solution. Security-Driven Networking approach provides tight integration of the network to the new generation of security.		
	The firewall must be a Next Generation Firewall/UTP configured on a High-Availability setup – a minimum of 2 units shall be provided with 3 years subscription		
	The solution must be capable of serving the entire scope of security gateway requirements, including throughput, connection rate, and security application		
	The Supplier must provide industry certifications of the solution. It must provide NSS Labs and/or ICSA Labs certification		
	The solution must have the option to deliver real-time compliance assessment with major regulations (i.e. PCI-DSS, HiPPA, SOX).		
	The solution must have the option to recommend security best practices		
	Must have atleast 15 Gbps Throughput		
	Must have atleast 19 Gbps IPS Throughput		
	Must be able to handle atleast 7 million Concurrent TCP Sessions		
	Must be able to handle atleast 500,000 New TCP connections/sec		
	Must be able to handle atleast 100,000 IPSec VPN Tunnels		
	Must have atleast 55 Gbps IPSec VPN Throughput		
	Must have atleast 2 x 100 Gigabit Ethernet QSFP28		
	Must have atleast 16 x 10 Gigabit Ethernet SFP		
	Must have atleast 8 x 1 Gigabit Ethernet RJ45		
	Must have 2 x USB Ports		
	Must have 1 x RJ45 Management Console ports		
	Must have redundant power supply		
	Must include Transceivers 2x SFP SX		
	The firewall must support dual IPv4 and IPv6 stacks including application control and inspection		
	Must support the DHCP relay locally		
	Must support policy-based routing		
	Must support the following NAT		

	<p>deployment modes for IPv4 and IPv6:</p> <ul style="list-style-type: none"> ● Static NAT ● Dynamic NAT ● PAT (Port Address Translation) 		
	<p>The firewall should include the following and not as an add-on license or subscription:</p> <p>Intrusion Prevention System (IPS)</p> <ul style="list-style-type: none"> ● Advanced Malware Protection ● Application Control ● Web and Video Filtering ● Antispam 		
	<p>The firewall must support the following protocols and applications:</p> <ul style="list-style-type: none"> ● Internet Protocol version 4 (IPv4) ● Internet Protocol version 6 (IPv6) ● Transmission Control Protocol (TCP) ● User Datagram Protocol (UDP) ● Internet Control Message Protocol (ICMP) ● Generic Route Encapsulation (GRE) ● Domain Name System (DNS) ● Simple Network Management Protocol (SNMP) ● Hypertext Transport Protocol (HTTP) ● Hypertext Transport Protocol Secure (HTTPS) ● File Transfer Protocol (FTP) ● Telnet ● Secure Socket Layer (SSL) and Transport Layer Security (TLS) ● Simple Mail Transfer Protocol (SMTP) ● IMAP ● POP3 		
	<p>The firewall must support full stack, multi-layer normalization, and stream-based data inspection and detection processes to detect advanced evasion techniques</p>		
	<p>The firewall must provide file filtering support for blocking malicious files</p>		
	<p>The firewall must support both basic DLP filter types and DLP fingerprinting</p>		
	<p>The proposed solution must have an extensible detection framework to quickly integrate proprietary and third-party solutions (API)</p>		
	<p>Must be able to provide a specific category to address HTTP-based technology which</p>		

	bypasses web filtering, e.g. third-party proxy servers, anonymous surfing, CGI proxy		
	The firewall must include support for the following high availability features: <ul style="list-style-type: none"> • Active – Active • Active – Passive • Clustering Mode 		
	The firewall must support multiple zones can be used to group SD-WAN interfaces for logical scenario, such as overlay and underlay interface		
	The firewall must be able to support logically separated virtual firewall instances, which are isolated from each other in a single appliance. With built-in free virtual contexts		
	The firewall shall be able to limit remote management access from a trusted network or host with a corresponding administrator account		
	The management software must have multi-selection support that performs actions and commits changes to hundreds of elements simultaneously		
	The firewall must support offline updating of content, firmware, or signature		
	The firewall must have USGc6/IPv6 certification		
	The firewall must comply with the following: <ul style="list-style-type: none"> • FCC Part 15 Class A • RCM • VCCI • CE • UL/cUL • CB 		
3.2	Link Load Balancer		
	Link Load Balancing with 3 years warranty		
	Must have 4 (GE), 1x USB, 2 (10G SFP+)WAN Interface		
	Must have 2 (10G SFP+) LAN Interface		
	The proposed link load balancer must have at least 8Gbps Stateful Firewall Throughput		
	The proposed link load balancer must have at least 2Gbps VPN Throughput (No Encryption)		
	The proposed link load balancer must have at least 2Gbps VPN Throughput (256-bit AES)		
	The proposed link load balancer must support at least 4000 Number of VPN		

	Peers		
	The proposed link load balancer must support at least 1500 Maximum Number of AP Supported		
	The proposed link load balancer must have the following features: <ul style="list-style-type: none"> • VPN Hot Failover • VPN WAN Smoothing • VPN Bandwidth Bonding • Central Management • Drop-In Mode • High Availability • Content Filtering (Full) • AP Series Management • Remote AP & Multiple Config Profiles Management • LAN Bypass • Remote User Access 		
	The proposed link load balancer must have the following Advanced QoS Functionality: <ul style="list-style-type: none"> • Bandwidth Usage Monitor • QoS for VoIP and E-Commerce • User Groups Bandwidth Control • Web Blocking 		
3.3	Hyper-Converged Infrastructure Appliance (HCIA)		
	Node size must be maximum of 2U per node		
	Number of nodes must be at least (2) nodes		
	Must have at least two (2) 240G OS disks		
	Cores 16, Threads 32, Base Frequency 2.90 GHz with Turbo Boost, Cache 22MB, MAX UPI Links 2		
	Must have at least 16core/32Threads per processor		
	Must have at least 8 X 32GB 2666MHz DDR4 RDIMM ECC or equivalent		
	Must have at least 4 X 8TB 7.2K RPM 3.5in SATA HDD (Enterprise) per node		
	Must have at least 6GB/S 2x 1900 GB SSD 2.5 per node		
	Must have at least six (6) 1000Base-T and two (2) 10Gb SFP+ Multimode ports per node		
	Must have at least 2 X redundant power supply per node		
	Software: <ul style="list-style-type: none"> • 2 x Server Virtualization, HA, DRS, Automated Hot-Add per node 		

	<ul style="list-style-type: none"> • 2 x Network Virtualization with Distributed Firewall Technology and Drawable Technology per node • 2 x Storage Virtualization per node • 1 x Virtual Application Firewall for the whole cluster 		
	The HCI must be capable and ready for network virtual security (Virtual Firewall, Bandwidth Manager, SSL VPN, WAN Optimization).		
	The HCIA software is licensed based on the number of physical processors		
	The HCI solution could start with 2 servers, and retain scalability by adding servers only without influencing the production		
	The HCI solution must be able to evaluate the performance of virtual machines and hot-add resources (vCPU and RAM) when they are running out of CPU or memory, minimizing business downtime		
	The HCI solution should have High-Availability. In case the host fails, all the VMs running on that host can be recovered to another clustered host to ensure business continuity		
	The HCI solution should have the built-in back-up and support agent-less incremental VM-level back-up. For Windows VMs, file-level recovery must be supported		
	The HCI solution must support snapshot consistent group and scheduled snapshots		
	The HCI solution must have AI-Enhanced database performance optimization with built-in self-adaptive performance optimization engine		
	The HCI solution must support host health monitoring, when a host is deemed unhealthy, it will be put in an unhealthy host list and VM placement and HA failover will avoid using the unhealthy host as a destination. When the host is back to normal, it can be taken out of the unhealthy host list automatically		
	The HCI solution must be Able to automatically migrate some of the VMs on a node when the CPU& Memory usage of the node exceeds a certain threshold to alleviate the workload of this node, the CPU/memory threshold can be set on the management platform		

	The HCI solution must support agent-less USB mapping for virtual machine across hosts. For a solution with a USB key, no client plugin needs to be installed on a virtual machine. Additionally, VM migration does not affect the existing mapped USB resources, to make the business adaptive and more flexible		
	The HCI solution storage is in distributed architecture where more than one storage nodes are composed of a Storage Area Network (SAN) that can be scaled out (by increasing nodes) to expand storage capacity and performance		
	The HCIA must support access via iSCSI, to enable other hosts in the cluster to use iSCSI to access the virtual storage, and making Server SAN and IP SAN work together, and maximize storage utilization		
	The HCIA must have a full copy of VM's data should be existed on the node where the VM is running on to facilitate faster read and write		
	The HCIA virtual storage must make use of SSD as cache tier and spinning disk as data tier to ensure performance and cost balance. Data is written to SSD first and read from SSD in priority to improve performance		
	The HCIA Data that is frequently accessed (also called hot data) can use SSD as a persistent storage media, when VM is migrated or host is rebooted, the hot data must still reside in the SSD for fast retrieval		
	The HCIA must support 3 data copies with 3 hosts to tolerate failure of any 2 disks or 1 host		
	The HCIA must Support disk bad sector prediction, scanning and repair to maximize data security		
	The HCIA must support storage capacity prediction based on historical usage statistics and consumption behavior		
	The HCIA must support disk remaining lifecycle prediction		
	The HCIA natively support deploying virtual routers, virtual switches and firewalls		
	The HCIA must have built-in distributed firewall to apply granular access control policy between VMs, securing east-west traffic (also known as Micro-segmentation)		

	The HCIA virtual router supports high availability. A failed virtual router can be automatically recovered upon host failure, to ensure high availability of routing service		
	The HCIA network topology can be completed simply by dragging objects and drawing connections via a visualized web-based management panel. Together with more operations		
	The HCIA must have Distributed Firewall The HCIA must have activated virtual firewall that can provide protect against known and zero-day attack. Should be ready with below features: <ul style="list-style-type: none"> a. Provides timely and full protection with threat intelligence services to perform automatic scan, give alerts on latest high-threat vulnerabilities and/or one-button click protection b. Weak password scanning for common network services (SSH, FTP, RDP, VNC, Netbios) and database types (MySQL, Oracle, MSSQL) to provide full protection 		
	Must supply 2 units of L3 Ethernet Switch with 16*1G/10GBase-X SFP Plus Ports with dual power supply and 1*Slot, 8 units of SFP+ modules		
	Must have 3 years hardware repair and maintenance warranty		
	Must have 3 years software subscription, upgrade license and technical support		
3.4	Network Detection and Response Data Processor		
	Must have atleast 5 Gbps throughput		
	Must have atleast 96 GB memory		
	Must support atleast 10000 EPS		
	Must have 128GB SSD system disk + 32TB SATA data disk		
	Must have 4 x 10/100/1000 BASE-T		
	Must have redundant power supply		
	Must be atleast 2RU Form Factor		
	Must support different security perspectives and display multiple kinds of slideshow.		
	Must support slideshow of security event situation, including security incident, event level distribution, security incident situation, security incident TOP5, the		

	event with the largest threat surface TOP10, event type TOP5, risk business/host TOP5 (screenshot proof, and official seal of vendor are required).		
	Must support slideshow of outbound connection, including external risk overview, external threat TOP10, external threat situation, external region TOP5, real-time threat monitoring; Support independent switch of international and domestic maps (screenshot proof and official seal of vendor are required).		
	Must support 3D slideshow to display network attack situation, including attack number, attacked asset group, attack source address, attack source IP, attack means ranking, attacked server ranking; (screenshot proof and official seal of vendor are required).		
	Must support slideshow to display lateral threat situation, including business and user access, initiated threat host TOP5, risk business TOP5, access trend chart; Support different color marking lateral attacks, illegal access, suspicious behavior, risk access and other behaviors. (screenshot proof and official seal of vendor are required).		
	Must Support the headquarters administrator to view the global security information, support page jump to each branch of the independent management page. (screenshot proof and official seal of vendor are required).		
	Must support for custom branch management authority, branch administrator has an independent management page, can only manage and view the branch business and assets security information and have a complete function display.(screenshot proof and official seal of vendor are required).		
	Must support the query, editing and management of asset information, including asset type, geographic location, responsible person, audit status, host name, operating system, domain name, service and port, application, manufacturer, device model, vendor serial number, source device, etc. (screenshot proof and official seal of vendor are required)		
	Must support real-time traffic identification and active scanning for		

	assets, can be correlated with the scanner regularly or immediately scanning assets, support custom scanning IP address, network segment, URL.(screenshot proof and official seal of vendor are required).		
	Must support weak password detection. The weak password detection technology is based on machine learning (unsupervised self-learning) to extract the characteristics of successful login. It supports custom Web login rules, and can set rules for determining success and failure.(screenshot proof and official seal of vendor are required).		
	The weak password detection supports passive discovery, supports the detection of 62 common protocols such as FTP, IMAP, LDAP, POP3, SMTP, TELNET and WEB, and adopts rule matching and UEBA learning technology to detect.(screenshot proof and official seal of vendor are required).		
	Must supports real-time traffic identification and vulnerability analysis. Vulnerability analysis types include configuration error vulnerability, OpenSSH vulnerability, OpenLDAP and other operating systems, databases, Web applications, etc. It supports displaying business vulnerability risk distribution, vulnerability type analysis, vulnerability situation, hazard and disposal suggestions on the page, and supports exporting vulnerability perception report.(screenshot proof and official seal of vendor are required).		
	Must support business perspective to display security risks, including attack phase distribution, risk level trend, event description, external attacks, vulnerability risk, behavior portrait, open port, etc. (screenshot proof and official seal of vendor are required).		
	Must support host perspective display host IP, branch, host group, risk level, security event label, processing status, linkage status; The risk grade includes fallen, high risk, medium risk and low risk		
	Must support security domain perspective to display security risks, including security domain list, security domain score, event type TOP5, IP address, IP type, risk level, critical risk. (screenshot proof and official seal of vendor are required).		

	Must support external threat analysis, including high risk attack, residual attack, brute force break, successful incident attack, mail threat, file threat, external risk access		
	Must support lateral threat analysis, including lateral threat overview, lateral attack, unauthorized access, suspicious behavior, risk; The lateral risk overview includes TOP5 hosts that initiate lateral threats, TOP5 hosts that suffer from lateral threats, distribution of lateral threat types, and trend of lateral threats. (screenshot proof and official seal of vendor are required).		
	Must support outbound threat analysis, including outbound threat overview, outbound attack, APT C&C communication, suspicious behavior, covert communication, illegal access, server risk access; The external threat overview includes the outbound threat host type distribution, existing outbound threat IP TOP5, outbound target region (abroad) TOP5, outbound threat type distribution, outbound threat trend. (screenshot proof and official seal of vendor are required).		
	Must support threat intelligence correlation analysis, with no less than 1.5 millions of built-in threat intelligence; Support to display threat intelligence hit count, hit count today, hit threat intelligence category TOP10, Hit Trend, active threat intelligence TOP20, etc. (screenshot proof and official seal of vendor are required).		
	Must support custom threat intelligence, define domain name, IP, URL, file MD5, deterministic level, threat level, event type, hazard description, disposal recommendation and other information. (screenshot proof and official seal of vendor are required).		
	Must support multi-dimensional fuzzy clustering algorithm is supported to aggregate a large number of external attack logs into a small number of attack events. The aggregation dimension includes attack IP, attack address, attack target and attack method. (screenshot proof and official seal of vendor are required)		
	Must support file threat analysis, can		

	show the file analysis process, file detection trend, malicious file TOP5; Support the detailed analysis of malicious files, including supporting the recording of malicious files infected host, branch, file name, virus name, transmission protocol. Supports exporting file threat analysis results. (screenshot proof and official seal of vendor are required).		
	Must support host threat impact analysis, find out lateral attack, illegal access, suspicious behavior and risk access launched by risk host to internal host. (screenshot proof and official seal of vendor are required).		
	Must support the export of endpoint security risk report, which includes business and host risk summary, business risk and host detail analysis, and provide hazard interpretation and reference solutions; Suitable for daily operation and maintenance personnel dealing with security issues.		
	Must support the export of a complete comprehensive risk report, including platform description, security risk summary, business and host security details analysis, security planning and construction recommendations, etc		
	Must support access to firewall, Secure Web Gateway, EDR, STA and other devices; Support to display the number and status of security component accesses in the page. (screenshot proof and official seal of vendor are required).		
	Must support SOAR strategy of asset type, event type and risk level. correlate components include NGFW, Secure Web Gateway and EDR. Where the asset type can choose host, server or IP assets of specified range; The risk level can be selected as compromised, high, medium and low risk. Event types include Botnet, Phishing, Trojan etc., and the number of event types is not less than 20. (screenshot proof and official seal of vendor are required).		
	Must support response policies including correlated block, access control, browsing risk notification, account lockout, threat scan, forensics. It can identify the security equipment connected to the platform and automatically recommend the response policies (screenshot proof and official seal		

	of vendor are required).		
	Must correlate with EDR components, the platform support automatically set the correlation policies to block the traffic, threat scanning and process killing; Support feedback virus information and malicious domain name communication process information (screenshot proof and official seal of vendor are required).		
	Must correlate with Firewall components, the platform support automatically set the correlation policies to block the traffic, and set up a new ACL policy		
	Must correlate with Secure Web Gateway components, the platform support automatically set the correlation policies for account lockout and browsing risk notification.		
3.5	Network Detection and Response Data Collector		
	Must have atleast 3Gbps throughput		
	Must have atleast 8Gb memory		
	Must have atleast 1TB SATA		
	Must have 6 x 10/100/1000 BASE-T, 2 x 1Gbe SFP, 2 x 10Gbe SFP+ (Default)		
	Must have dual power supply		
	Must be atleast 2RU form factor		
	Must actively send a small number of detection messages, discover potential servers (shadow assets) and learn basic server information, such as: operating system, open ports, etc.		
	Must have message detection engine, which can realize IP fragment reorganization, TCP flow reorganization, application layer protocol identification and analysis, etc.; it has a variety of intrusion attack modes or malicious UR detection modes, which can complete pattern matching and generate events, and can extract URL records and Domain name record.		
	Must support SQL injection, XSS attack, web Trojan, website scanning, WEBSHELL, cross-site request forgery, system command injection, file inclusion attack, directory traversal attack, information leakage attack, web site system vulnerability and other website attack detection		
	Must support sensitive data leakage detection capabilities, customizable sensitive information, and support		

	information filtering based on file types and sensitive keywords		
	Must support vulnerability attack detection such as Database vulnerability attack, DNS vulnerability attack, FTP vulnerability attack, Mail vulnerability attack, Network Device, Scan vulnerability attack, System vulnerability attack, Telnet vulnerability attack, TFTP vulnerability attack, Web vulnerability attack, etc.		
	Must support Application vulnerability attack, File vulnerability attack, Scan vulnerability attack, Shellcode vulnerability attack, System vulnerability attack, Web Activex and other host vulnerability attack detection		
	Must support FTP, IMAP, MS Sql, Mysql, Oracle, POP3, RDP, SMTP, SSH, Telnet, and other protocols brute force detection		
	Must support standard ports to run non-standard protocols, and non-standard ports to run standard protocol abnormal traffic detection. Port types include 3389, 53, 80/8080, 21, 69, 443, 25, 110, 143, 22, etc.		
	Must support ICMP, UDP, SYN, DNS and other protocols for abnormal traffic detection, support custom threshold		
	Must support HTTP unknown sites to download executable files, browse registered domain names in the last 30 days, browse malicious dynamic domain names, access random algorithm to generate domain names, brute force attacks, rebound connections, IRC communication and other botnet behavior detection		
	Must supports transmission of security detection logs, including network attack detection logs, vulnerability exploit attack detection logs, botnet detection logs, and business vulnerability discovery logs		
	Must support transmission of access detection logs, including normal access, risk access, and unauthorized access		
	Must support transmission protocol audit log, including https protocol log, http protocol audit log, DNS protocol audit log, mail protocol audit log, SMB protocol audit log, AD domain protocol audit log, WEB login audit log, FTP protocol audit log,		

	Telnet protocol audit Log, ICMP protocol audit log, LLMNR protocol audit log		
	Must support IP, IP group, service, port, access time, etc. to define access policies, and actively establish targeted business and application access logic rules, including whitelist and blacklist methods		
	Must support built-in URL database, IPS vulnerability feature identification database, application identification database, WEB application protection identification database, botnet identification database, real-time vulnerability analysis identification database, malicious link database, whitelist database		
	Must support traffic capture analysis, users can define the number of captured packets, interface, IP address, port or custom filter expression		
	Must support the built-in simple command line management window of the device, which is convenient for basic operation, maintenance and debugging		
	Must be able to monitor CPU, memory and storage usage real time		
	Must be able to monitor the real-time traffic of the listening interface		
	Must support multiple collectors to be deployed at different locations on the customer's network at the same time and transmit data to the same analysis platform		
3.6	Endpoint Detection and Response		
	The antivirus must include but is not limited to: Protection software for Windows workstations, Linux workstations, Oracle, Active Directory		
	The anti-virus solution should have centralized management, monitoring update software. It should allow for slave servers, tools for distributing both the client agents and signature database updates to other clients, distribute all agents in a single action as well as monitor the health of the agent.		
	The anti-virus solution should have capability to update databases of signatures for malicious programs and		

	attacks. It should use the same mechanism to distribute signatures, updates, firewall policies and engine updates		
	The anti-virus solution should provide a list of system resources that are continuously monitored indicating malware presence e.g. host files, registry		
	The anti-virus solution should accommodate resident antivirus monitoring		
	The anti-virus solution should have launching of tasks by schedule and/or just after loading the operating system		
	The anti-virus solution should support virtualized environments		
	The anti-virus solution should allow for simulation of unknown code before execution to determine malicious intent without user intervention		
	The anti-virus solution should have a Heuristic analyzer that allows identification and blocking of previously unknown malware more efficiently including zero day outbreaks		
	The anti-virus solution should have AI capabilities that allows identification and blocking of previously unknown malware more efficiently including zero day outbreaks		
	The anti-virus solution should have AI capabilities that allows identification and blocking of previously unknown malware based on malware family classification		
	The anti-virus solution should have capability of scanning on the user's or administrator's request and according to a schedule. The primary administrator should be able to manage the whole solution while local domain administrators should manage their groups		
	The anti-virus solution should have capabilities of checking and disinfection of files in archives using the RAR, ARJ, ZIP, CAB, LHA, JAR, ICE formats up to 16 layers		
	The anti-virus solution should have cloud-based technology that provide ability to receive verdicts in online mode about applications and executable files running		

	on computer		
	The anti-virus solution should have protection of HTTP-traffic – scanning of all objects entering the user's computer through the HTTP/FTP protocol		
	The anti-virus solution should have capabilities of scanning of all scripts, developed in Microsoft Internet Explorer, as well as any WSH scripts (JavaScript, Visual Basic Script WSH scripts (JavaScript, Visual Basic Script etc.), launched when the user works on the computer, including the Internet		
	The anti-virus solution should have applications control that prevents applications from performing actions that may be dangerous for the system		
	The anti-virus solution should have protection against hacker attacks by using a firewall with an intrusion detection and prevention system (IDS/IPS) and network activity rules. It should also provide deep packet inspection of incoming network traffic		
	The anti-virus solution should control for isolation from any connected network		
	The anti-virus solution should have special task for detecting vulnerabilities, with results available in reports. It should also allow for completely ad-hoc reports. (Filtered reports don't count)		
	The anti-virus solution should have special task for detecting compliance with organization security compliance policies, with results available in reports. It should also allow for completely ad-hoc reports. (Filtered reports don't count)		
	The anti-virus solution should provide visual representation of allowed/unauthorized/suspicious communications between endpoint and other network and internet devices		
	The anti-virus solution should provide integrity checks of endpoints to include (but not limited to): for Windows endpoints include account, access control, security audit, history information protection, intrusion prevention and malicious code prevention. For Linux endpoints include: account, access		

	control, security audit, SSH policy detection, intrusion prevention and malicious code prevention.		
	The anti-virus solution should have Several Sources of Intelligence		
	The anti-virus solution should have threat Intelligence services to mitigate and give actionable information of threats detected locally or globally		
	The anti-virus solution should have data feeds to inform the business about risks and implications associated with cyber threats, and defend against attacks even before they are launched. They may include: Malicious Hash feeds, Whitelisting Data Feeds and Botnet C&C URL Feeds		
	The anti-virus solution should provide a detailed inventory of applications installed on managed workstations e.g. application name, and version		
	The anti-virus solution should have each Data Feed give output of actionable context such as threat names, timestamps, geo-location, resolved IPs addresses of infected web resources, etc		
	The anti-virus solution should have threat intelligence generated in real time		
	The anti-virus solution should have intelligence services which allow detection of malware in all types of traffic, whether web, Email, P2P, Instant Messaging, etc." "The anti-virus solution should have easy integration of actionable context into existing security solutions		
	The anti-virus solution should have capability to conduct intricate searches into threat indicators		
	The anti-virus solution should have Advanced Persistent Threat Intelligence		
	The anti-virus solution should have capabilities to mitigate against targeted attacks		
	The anti-virus solution should have capabilities to allow administrators to mitigate infections and attacks across multiple targets with minimal effort from the management console		
	The anti-virus solution should have real-time ransomware protection to detect and		

	block encryption of endpoints and shared folders		
	The anti-virus solution should have capabilities to allow administrators to isolate individual or multiple targets from the network (micro-isolation) with minimal effort from the management console		
	The anti-virus solution should integrate with network devices to allow administrators to mitigate infections and attacks across multiple targets with minimal effort from the network device		
	The anti-virus solution should integrate with network devices to contain the propagation of infections and attacks across domains		
	The anti-virus solution should allow for immediate incident response and forensic capabilities		
	The anti-virus solution should have Provision of customizable endpoint compliance reports based on organizational security policies		
	The anti-virus solution should have Identification of notable threats for different states and different locations or countries		
	The anti-virus solution should have proactive alerts about threats coming from botnets that target online users		
	The solution should allow for creation of new client groups not dependent on the active directory and report on the group as well as use it in policy		
3.7	IT Helpdesk System		
	Must be support Incident management capable of the following functions: <ul style="list-style-type: none"> ● Incident identification ● Incident logging ● Incident categorization ● Incident assignment ● Incident prioritization ● Incident resolution ● Incident closure 		
	Must be support Problem management capable of the following functions: <ul style="list-style-type: none"> ● Problem creation and logging ● Problem analysis ● Problem solution 		

	<ul style="list-style-type: none"> ● Problem closure 		
	<p>Must be support Change management capable of the following functions:</p> <ul style="list-style-type: none"> ● Change creation and logging ● Change planning and evaluation ● Change Approval ● Coordinating change implementation ● Change review and closure ● Change workflows 		
	<p>Must be support Asset management capable of the following functions:</p> <ul style="list-style-type: none"> ● Build your inventory ● Hardware asset management ● Discovery techniques for window ● Discovery techniques for window ● Software asset management ● Track the complete life cycle of asset ● Loan assets for temporary users ● Keep tabs on asset metrics 		
	<p>Must be support Service catalog functionalities:</p> <ul style="list-style-type: none"> ● Service Catalog Configuration ● Request fulfilment data ● Involving stakeholders ● Request fulfilment workflows 		
	<p>Must have Configuration management database (CMDB), Purchase management, Contract management, Project management, Enterprise service management</p>		
	<p>3 years subscription for 250 Monitors with 2 Users</p>		
3.8	Unified endpoint management and security software		
	<p>Must be a software that helps in managing servers, laptops, desktops, smartphones, and tablets from a central location</p>		
	<p>Must be able to automate desktop management routines like installing patches, distributing software, managing your IT Assets, software licenses, USB device usage, monitoring software usage statistics, taking control of remote desktops, mobile devices, and more.</p>		
	<p>Must be able to integrate with products</p>		

	such as an IT Helpdesk to help you perform complete operations based on ITIL framework.		
	Must support features such as advanced device restrictions, distributing of licenses in KNOX devices and app lock		
	Must support patching for over 850 applications in total, including Windows, Mac, Linux, and third-party applications.		
	Must have a built-in endpoint security features for automatically uninstalling prohibited software, blocking executables, securing USB devices, managing firewalls, and more, all of which are extremely important when it comes to network security.		
	<p>Must have the following general functions: Available as on-premise and SaaS version</p> <ul style="list-style-type: none"> ● Web-Based Access to UI ● Inbuilt Database ● Database backup and recovery ● Role Based Restrictions ● Manage Systems in LAN and WAN ● Automatic Agent Upgrade ● Retry Agent Installation ● Heterogeneous Platform ● Agent rebranding ● Microsoft office and IE settings ● VMware Support ● Email Alerting ● Two Factor Authentication ● Credential Manager ● Remote Agent Installation ● Deployment Policy Management 		
	<p>Must have the following Desktop Management Configurations:</p> <ul style="list-style-type: none"> ● Configuration management ● Configuration Life Cycle Management ● USB/Port Security Management ● Printer Install/Uninstall ● Power Management ● IT Help Desk Software - Servicedesk Plus Integration ● Security Policies Management ● Drive Mapping ● Permission Management 		

	<ul style="list-style-type: none"> ● Launch Application Management ● Local User and Group Management ● Browser Management ● MS office Management ● Display Management ● Custom Script Execution ● Wi-Fi Management ● Firewall and Service Management ● Imaging and Deployment - OS Deployer ● MAC OS Support ● Linux Management ● Failover Server 		
	<p>Must be capable of Software Distribution:</p> <ul style="list-style-type: none"> ● Install MSI/ EXE/ Script based software ● Run pre- and postInstallation commands ● Scheduled Software Deployment ● Template -driven Package Creation ● Uninstall Software Applications ● Self Service Portal for Windows 		
	<p>Must be capable of Patch Management:</p> <ul style="list-style-type: none"> ● Supports Microsoft OS and applications ● Supports third party patches like Java, Adobe, etc. ● Approve or Deny selective applications ● Deployment progress and status ● Customizable reboot and actions ● System Health Policy ● Automated Patch Deployment for Patch Task ● Automated Patch Deployment for Anti Virus Task ● Scheduled Deployment ● Test group and automatic approval of patches ● Decline Patches ● Disable Automatic Updates 		
	<p>Must have Asset Management:</p> <ul style="list-style-type: none"> ● Hardware and Software ● Prohibit software with auto-uninstall policy ● Audit history for prohibited software ● Software metering 		

	<ul style="list-style-type: none"> ● Software License Management ● Notify on Software/Hardware changes ● Managing Software Category ● Block exe- Windows 		
	<p>Must have Remote Control Management:</p> <ul style="list-style-type: none"> ● One click access to remote desktops ● Get users consent prior to connecting ● Watch only mode ● File Transfer ● Chat ● Multiple concurrent sessions ● Multi-monitor support ● Remote key board and mouse ● Recording remote sessions ● Rebooting during remote session ● Capture Alpha-Blending ● Hide Remote Cursor ● Disable Wallpaper/Aero theme ● Idle session settings ● Performance/Colour quality/FPS ● Blackening remote display, etc ● Shadow Remote User-Windows 		
	<p>Must have the following Tools and Reports functions:</p> <ul style="list-style-type: none"> ● Wake on LAN Tool custom ● Remote Shutdown/Restart ● System Manager ● Disk clean up, Defrag and Check disk ● Active Directory Reports ● Custom reports ● User Logon reports with login history ● Power management reports ● Configuration reports ● Patch reports ● USB reports ● Asset Reports ● MDM reports ● Live Chat Support 		
	<p>Must have OS Deployment (Windows OS)</p> <ul style="list-style-type: none"> ● Online and offline image creation ● Multicast/ Unicast deployment ● Customized deployment template ● Configure post deployment activities 		

	<ul style="list-style-type: none"> • Hardware independent deployment • Deploy OS to Remote offices • Automatic Driver updates • User Profile backup and migration (available on onpremise version only) • SID handling 		
	<p>Must have mobile device management:</p> <ul style="list-style-type: none"> • Device Enrollment • Supports Android, IOS, Windows 10 and 11 laptops and MAC OS devices • App management - install in-house and store apps silently, restrict blocklisted apps, app uninstallation silently • Profile management - configure policies and profiles • Content management - remotely share documents to the devices over the air. • Remote Troubleshooting • Security Management - configure stringent security policies such as passcode, device lock, lost mode, geo-fencing, geo location • Email Management - manage and secure corporate emails • Containerization for BYOD devices • Kiosk mode • Supports complete wipe or corporate wipe of the device • Asset Management - device details and installed apps 		
	3 years subscription for 2500 computers and 5 Users License		
	3 years subscription for 2500 Computers and Single User License		
3.9	IT Operations Management: Applications Management Software		
	Must be able to monitor collect performance metrics based on the APIs recommended by the vendors themselves and not generic network management protocols like SNMP. For example, the MySQL/ Oracle monitoring is based on the approaches recommended by these vendors, i.e. by using SQL queries.		

	<p>Must support server monitoring:</p> <ul style="list-style-type: none"> ● Windows Server ● Linux Server ● FreeBSD Server ● HP-UX Server ● IBM-AIX Server ● IBM AS400/iSeries ● Windows Cluster Server ● Server Hardware monitoring Stats 		
	<p>Must support application server monitor:</p> <ul style="list-style-type: none"> ● Jboss ● Tomcat ● IBM Websphere ● Oracle Weblogic ● Oracle AS ● Silverstream ● Microsoft .Net ● Apache Geronimo ● GlassFish ● VMWare vFabric tc Server ● Resin ● Jetty ● Wildfly 		
	<p>Must support the following ERP monitors</p> <ul style="list-style-type: none"> ● SAP ● Oracle E-Business Suite ● Siebel CRM ● Microsoft Dynamics CRM/AX 		
	<p>Must support the following DB Monitors</p> <ul style="list-style-type: none"> ● Oracle ● MSSQL ● MySQL ● IBM DB2 ● IBM DB2 for i ● IBM Informix ● Sybase ● PostgreSQL ● Memcached ● Cassandra ● SQL Anywhere ● MongoDB ● Redis ● Couchbase ● Apache HBase ● SAP HANA ● Hadoop big data store ● Oracle Coherence 		

	<ul style="list-style-type: none"> ● Oracle NoSQL ● SAP MaxDB ● Neo4j 		
	<p>Must support the following Web Server Monitors</p> <ul style="list-style-type: none"> ● Apache ● Microsoft IIS SW – Connects through WMI ● Microsoft Exchange ● LDAP ● DNS ● FTP/SFTP ● Nginx ● Nginx Plus ● Ceph Storage ● Apache Zookeeper ● Apache Solr ● Apache Elasticsearch ● HAProxy ● NPS (Radius server) ● Threshold alerts to identify service response time degradation ● Server availability / outage report ● Top N response time, CPU usage, Memory usage reports ● Port monitoring ● Non-SNMP devices using WMI & Telnet ● JMX resources (JMX 1.0 & JMX 1.2) ● Mail server ● Web server ● Hazelcast ● Microsoft Active Directory 		
	<p>Must support the following Virtualization Monitoring:</p> <ul style="list-style-type: none"> ● VMware ESX/ESXi ● VMware vCenter ● Microsoft Hyper-V ● Citrix XenServer ● Citrix XenApp ● VMware Horizon View ● Oracle VM ● KVM ● RHEV ● Automated Virtual Machine Management ● Virtualization dependency mapping 		

	<p>Must support the following Containers</p> <ul style="list-style-type: none"> ● Docker ● Kubernetes ● OpenShift.1 		
	<p>Must support the following Cloud Monitors</p> <ul style="list-style-type: none"> ● Amazon AWS (EC2, RDS, EBS, S3, SNS,Aurora,DynamoDB, ELB, NLB)" ● Auto-provisioning of cloud resources ● Windows Azure ● Microsoft Azure ● Azure SQL database ● Oracle Cloud Infrastructure ● Google Cloud Platform ● Openstack ● Office 365 		
	<p>Must have the following General functions:</p> <ul style="list-style-type: none"> ● Auto discovery of resources ● Application dependency mapping ● Host OS support (Windows, Linux) ● Ability to run as Windows service ● Client personalization ● Custom dashboards & widgets ● Credentials manager to manage user credentials globally ● Agentless Monitoring ● Deep Monitoring ● Unified view of business applications ● REST APIs to integrate with 3rd - party portals ● Service transaction views ● Code level monitoring ● Visualizing performance bottlenecks ● Response time heat map ● Transaction tracing ● Web transaction monitoring ● Apdex scores for measuring user experience ● Trace details 		
	<p>3 years subscription for 5 Technicians (3000 nodes)</p>		
<p>3.10</p>	<p>TRAINING Conduct Training and providing appropriate certification must be issued to the participants. i. Duration: 5 Days ii. Mode of Delivery: Face to Face Training</p>		

	iii. No. of Trainees: 5 Pax		
4.0	DATA CENTER SYSTEM UPGRADE		
	The supplier shall carry out design, engineering, installation, civil works, mechanical works, electrical works, wiring connections, testing and commissioning of the Data Center System components.		
4.1	Smart Data Center System (1 LOT)		
	<ul style="list-style-type: none"> ● 4 units of 600mm IT rack for 42Ux600Wx1400D,120Pcs CAT6 cables entry, intelligent lock, RDU-THD ● Cable duct 300mm width ● Cable duct 600mm width, for 600mm width IT Rack UPS Rack ● UPS Rack 600mm, 20kVA UPS (long backup) UPS N+1 Parallel Configuration ● 2 In-row Indoor unit DX, 60Hz, intelligent lock, electrical reheat & humidifier, with condenser pump, top piping, with CRAC HMI in the door ● 2 Outdoor unit for 25KW50/60Hz, environment temperature:20~40°C ● Adjustable rail kit ● External battery cabinet, 2U ● MPS switched PDU 32A, C13*18+C19*6, 5M length input cable ● 4G Modem for SMS notification ● Testing & Commissioning <p>Fire Suppression System</p> <ul style="list-style-type: none"> ● Point detectors for each IT Rack: Novec1230 suppression for 1.5m3 ● Point detector for UPS Rack: Novec1230 suppression for 3.0m3 ● Rackmount Kit 		
4.2	Data Center Fire Detection, Alarm, and Suppression System		
	<ul style="list-style-type: none"> ● Supply and installation of Clean Agent Fire Protection System ● Programming of Control Panel,Testingand Commissioning 3.Product Seminar and transfer of Technology ● Submission of Operations Manual (English) ● Scope of Work Electrical and Mechanical: 		

	<ul style="list-style-type: none"> ○ Supply and Installation of electrical conduits (EMT), boxes, wires, fittings, and anchors and necessary materials. Installation of releasing panel and other field devices Fabrication and installation of FM-200 manifold piping system Fabrication/Installation of FM-200 cylinder rack brackets. Fabrication and installation of pipe brackets and hanger. Rough-in-wirings Supply and installation of fittings 300lbs. ○ Capacity Supply and installation of BI Pipe schedule 40 seamless Painting of pipes, brackets and hangers Installation of FM-200 cylinder and discharge nozzles Engineering Work: Design drawings as per NFPA Final Testing and Commissioning Product Seminar Orientation and transfer of technology As built drawings ○ Interfacing of PACU/AC Unit to Suppression Panel shall be a maximum of 5 metres. Wiring from FSCP to PACU/AC 		
4.3	Door Access Control Data Center		
	<p><i>Door Access System (Biometrics, Face, Palm and Password)</i></p> <ul style="list-style-type: none"> ● Display 5-inch Touch Screen ● Face Capacity : 6,000 ● Fingerprint Capacity : 6,000 ● Palm Capacity: 3,000 ● Log Capacity 200,000 ● 900MHz Dual Core CPU, Memory 512MB RAM/8G Flash ● Communication TCP/IP, RS232/485, Wiegand Output ● Access Control Interface for 3rd party electric lock, door sensor, exit button, alarm, wired doorbell ● Anti-pass back Function ● Standard Access Control Function: Access Levels, Groups, Holidays, Anti- pass back, Tamper alarm ● Power Supply 12V DC ● Operating Temperature 16 - 32 °C ● Operating Humidity 10% -90% 		
4.4	Airconditioning Unit (3 units)		

	<ul style="list-style-type: none"> ● Aircon Type: Split ● Cooling Capacity (HP): 2.5HP ● Inverter Technology ● Input Power : Single 230V/60Hz ● Capable of scheduled transfer duty ● All cooling equipment shall be provided with the necessary condensate drain 		
5.0	IP TELEPHONY SYSTEM		
	The supplier shall carry out design, engineering, installation, testing and commissioning of the IP Telephony System.		
5.1	IP PBX MAIN SYSTEM		
	<ol style="list-style-type: none"> a. Supports up to 2000 users b. Unlimited SIP trunk accounts c. Supports up to 200 concurrent call d. Provides security protection using SRTP, TLS and HTTPS encryption e. Supports up to a 5-level IVR (Interactive Voice Response) f. Built-in call recording server; recordings accessed via web user interface g. Supports Multiple configurable call queues, automatic call distribution (ACD) based on agent skills/availability/ work-load, in-queue announcement h. Built-in Call Detail Records (CDR) for tracking phone usage by line, date, etc. i. Multi-language auto-attendant to efficiently handle incoming calls j. Integrated LDAP and XML phonebooks, flexible dial plan k. Supports any SIP video endpoint that using the H.264, H.263 and H.263+ codecs l. Supports voicemail and fax forwarding to email m. Analog Telephone FXS Ports: 2 RJ11 ports (both with lifeline capability in case of power outage) n. PSTN Line FXO Ports: 2 RJ11 ports (both with lifeline capability in case of power outage) o. T1/E1 Interface: 1 RJ45 port p. Network Interfaces: Dual Gigabit ports (switched or routed) with PoE;A 3rd Gigabit port for Hot-Standby Clustering q. Supports Integrated NAT router Voice-over-Packet Capabilities: LEC with NLP 		

	<p>Packetized Voice Protocol Unit, 128ms-tail-length carrier grade Line Echo Cancellation, Dynamic Jitter Buffer, Modem detection & auto-switch to G.711</p> <ul style="list-style-type: none"> r. Voice and Fax Codecs: G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, iLBC, GSM, AAL2-G.726-32, ADPCM; T.38 s. Video Codecs: H.264, H.263, H263+ t. QoS: Layer 3 QoS, Layer 2 QoS u. DTMF Methods: In Audio, RFC2833, and SIP INFO v. Supports the following Network Protocols: TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP (RFC3261), STUN, SRTP, TLS, LDAP, HDLC, HDLC-ETH, PPP w. Supports the following Disconnect Methods: Call Progress Tone, Polarity Reversal, Hook Flash Timing, Loop Current Disconnect, Busy Tone x. Mount: Rack mount & Desktop y. Supports Caller ID: Bellcore/Telcordia, ETSI-FSK, ETSI-DTMF, SIN 227 – BT z. Supports Up to 8 Conference bridges, up to 64 simultaneous conference attendees aa. Supports the following Call Features: Call park, call forward, call transfer, DND, DISA, ring group, pickup group, blacklist, paging/intercom 		
5.2	OPERATOR IP PHONE		
	<ul style="list-style-type: none"> a. 12 dual-color line keys (with 6 SIP accounts), 5 XML programmable context sensitive soft keys Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE b. 48 digitally programmable & customizable BLF/fastdial keys, and supports up to 4 cascaded Modules c. Built-in Bluetooth for syncing headsets and mobile devices for contact books, calendars & call transferring d. HD (High Definition) handset and speakerphone with support for wideband audio e. Supports full duplex speakerphone f. Graphic Display 4.3 inch (480x272) TFT color LCD 		

	<ul style="list-style-type: none"> g. Feature Keys: 12 line keys with up to 6 SIP accounts, 5 XML programmable context sensitive softkeys, 5 navigation/menu keys, 11 dedicated function keys for : MESSAGE(with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOL+, VOL h. Voice Codecs: Support for G7.29A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF(in audio, RFC2833, SIP INFO) i. Auxiliary Ports: RJ9 headset jack (allowing EHS with headsets), USB, extension module port j. Telephony Features: Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call appearance (SCA)/bridged-line- appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log(up to 500 records), XML customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over k. Supports Extension Module: Can power up to 4 Extension modules which features a 128x384 graphic LCD, 20 quick-dial/BLF keys which dual- color LED, 2 navigation keys, and less than 1.2W power consumption per unit. l. Supports QoS: Layer 2 QoS (802.1Q, 802.1P) and Layer 3 (ToS, DiffServ, MPLS) QoS m. Security: User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, SRTP, TLS, 802.1x media access control n. Power: Universal power adapter included: Input:100-240V ; Output: +12V, 1.0A ;Integrated Power-over-Ethernet(802.3af) o. Max power consumption: 5.4W(without Extension) or 9.2W(with 4 cascaded Extensions) 		
5.3	IP PHONE		

	<ul style="list-style-type: none"> a. Features and Specifications: 2 lines, 2 SIP accounts, up to 2 call appearances b. Graphic Display 132 x 48 backlit graphical display c. Feature Keys: 2 line keys with dual-color LED and 2 SIP accounts, 3 XML programmable context sensitive soft keys, 5 (navigation, menu) keys. 13 dedicated function keys for MUTE, HEADSET, TRANSFER, CONFERENCE, SEND and REDIAL, SPEAKERPHONE, d. VOLUME, PHONEBOOK, MESSAGE, HOLD, PAGE/INTERCOM, RECORD, HOME e. Protocols/Standards: SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDPMED, LDAP, TR- 069, 802.1x, TLS, SRTP f. Network Interfaces: Dual switched auto-sensing 10/100 Mbps Ethernet ports, integrated PoE g. Voice Codecs: Support for G.711μ/a, G.722 (wide-band), G.723 (pending), G.726-32, G.729 A/B, iLBC (pending), Opus (pending), in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC h. Telephony Features: Hold, transfer, forward (unconditional/no-answer/busy), 3-way conferencing, call park/pickup, shared-call appearance (SCA) / bridged-line-appearance (BLA), Downloadable phone book (XML, LDAP, up to 500 items), call waiting, call history (up to 200 records), off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones, server redundancy & fail-over i. Supports Headset Jack: RJ9 headset jack (allowing EHS with Plantronics headsets) j. HD (High Definition) handset and speakerphone with support for wideband audio k. QoS: Layer 2 QoS (802.1Q, 802.1P) and Layer 3 (ToS, DiffServ, MPLS) QoS l. Supports the following Security: User and administrator level access control, 		
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	MD5 and MD5-session based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control m. Automated provisioning options include TR-069 and XML config files		
5.4	TRAINING Conduct Training and providing appropriate certification must be issued to the participants. i. Duration: 5 Days ii. Mode of Delivery: Face to Face Training iii. No. of Trainees: 5 Pax		
6.0	UPS & BACKUP POWER SYSTEM		
	The supplier shall carry out design, engineering, installation, civil works, mechanical works, electrical works, wiring connections, testing and commissioning of the Data Center System components.		
	Supplier should have Certification as Authorized Distributor/Reseller and Service Provider of the brand from the Manufacturer as proof of support that contractor can repair, advise replacement and /or troubleshoot power protection of equipment		
6.1	3000 VA, Double Online Conversion UPS for IDF (10 units)		
	<p>INPUT</p> <ul style="list-style-type: none"> ● Nominal Voltage: 220 – 240 VAC; 1-Phase ● Voltage tolerance : 184 VAC ● Nominal Frequency: 50/60Hz ± 5Hz ● Power Factor: > 0.98 ● Current Distortion: ≤ 7% <p>BYPASS</p> <ul style="list-style-type: none"> ● Voltage Tolerance: 200 - 253 Vac ● Frequency Tolerance: Frequency selected (from ±0.Hz to ±5Hz configurable) ● Overload Times: 125% (4 Sec); 150% (0.5 Sec) <p>OUTPUT</p> <ul style="list-style-type: none"> ● Nominal Power: 3000VA ● Active Power: 2700W ● No. of Phases: 1 ● Nominal Voltage: 220 – 230 – 240 VAC (Selectable) ● Voltage Distortion: < 3% (linear load) / < 6% (non-linear load) ● Frequency: 50/60Hz (Selectable) 		

	<ul style="list-style-type: none"> ● Static Stability: 1.5% ● Dynamic Variation: ≤ 5% in 20 ms ● Waveform: Sinusoidal ● Crest Factor: 3 is to 1 		
6.2	1500 VA, Double Online Conversion UPS for IDF (22 units)		
	<p>INPUT</p> <ul style="list-style-type: none"> ● Nominal Voltage: 220 – 240 VAC; 1-Phase ● Voltage tolerance : 184 VAC ● Nominal Frequency: 50/60Hz ± 5Hz ● Power Factor: > 0.98 ● Current Distortion: ≤ 7% <p>BYPASS</p> <ul style="list-style-type: none"> ● Voltage Tolerance: 200 - 253 Vac ● Frequency Tolerance: Frequency selected (from ±0.Hz to ±5Hz configurable) ● Overload Times: 125% (4 Sec); 150% (0.5 Sec) <p>OUTPUT</p> <ul style="list-style-type: none"> ● Nominal Power: 1500VA ● Active Power: 1350W ● No. of Phases: 1 ● Nominal Voltage: 220 – 230 – 240 VAC (Selectable) ● Voltage Distortion: < 3% (linear load) / < 6% (non-linear load) ● Frequency: 50/60Hz (Selectable) ● Static Stability: 1.5% ● Dynamic Variation: ≤ 5% in 20 ms ● Waveform: Sinusoidal ● Crest Factor: 3 is to 1 		
6.3	3 Phase, 220-440v, 60KVA, Silent Type Generator		
	<p><i>Standard Accessories:</i></p> <ul style="list-style-type: none"> ● Heavy-duty steel skid type base frame (fuel tank) ● Unit mounted tropical capacity radiator with engine driven blower fan ● Electric starting systems complete with batteries and battery mounting frame and battery cables ● Lubricating engine oil and filters ● Muffler ● Battery charging alternator engine driven ● Battery charger with radiator water coolant ● Complete set of operation and instruction manual of engine, alternator and control panel 		

6.4	Automatic Transfer Switch (ATS) 150amps, 230Volts, 3phase, 60Hz, Breaker Type		
	ENCLOSURE-Nema-1, Gray/Beige finished, wall mounted with Pilot lights Green-Normal/Red-Emergency		
	CONTROLTYPE: Manually & Electrically operated w/ Mechanical Interlock, Motorized by Unigear		
	Must support Time Delay on transfer & re-transfer		
	Must have Selector switch auto-off-manual		
	Must have NR-Normal relay, ER-Emergency relay		
6.5	200 LITERS FUEL DAY TANK (FDT)		
	FDT should be fabricated using M.S. Plate 2.5 mm thickness		
	Sight Glass with angle valve & protector		
	Drain line should be provided at the lowest portion of tank		
	Tank should have 2 pairs of standing support made of channel bar		
	Initial supply of 200L of fuel		
6.6	TRAINING Conduct Training and providing appropriate certification must be issued to the participants. iv. Duration: 5 Days v. Mode of Delivery: Face to Face Training vi. No. of Trainees: 5 Pax		
7.0	IP-BASED PUBLIC ADDRESS SYSTEM		
	The prospective bidder shall supply, install, test, connect and commission a high quality fast acting electronic Voice Evacuation, Background Music and Public Address System. The system shall be capable of providing both general purpose and emergency broadcasts.		
	The main equipment and accessories must be one brand		
	The system shall be made up of a Multiple System frame (Compact all Input & Output Matrix), Surveillance (for the output matrix, amplifier and speaker line surveillance), Power Amplifier/s., Microphone/s, Voice Announcement Board/s, Surveillance Board/s, Digital		

	Announcer/s and all other equipment as necessary to ensure that the intent of these technical specifications and the plans are met and complied with. All equipment used shall be of sufficient capacity and rating to ensure that all paging and priority emergency announcements shall reach the entire building		
	TCP/IP Network based can do centralized & Decentralized system & has Advanced ambient noise control (ANC) Q4 & Masterless system provides high security if one lines fails (Q4) & Both input & output DSP capability		
	The system shall provide for an adequate number of speaker zones and power amplifier rating to ensure proper operation as required by the design		
	For future expansion, the supply of additional Power Amplifiers shall provide additional speaker zones and power capacity		
	Emergency broadcasts and all call paging can be made even while the local attenuator is turned off or turned down. For this purpose, a three (3) or four (4) wire speaker line control type of wiring shall be installed		
7.1	SYSTEM COMPONENTS		
7.1.1	System Frame (6 units)		
	The System frame shall be modular design for flexibility in system configuration. Compact all functions, all inputs & outputs in one unit frame. Easy system configuration thanks to small number of system configuration		
	The System frame controls audio signal routing, priorities and peripheral equip, while input and output control settings are performed by way of a PC. Up to 10,000 system events and 1,000 fault events can be recorded in the unit and this events log can be viewed from a PC.		
	The software program for the system shall be loaded into the System Frame. All Control Inputs from the Fire Detection System and the inputs for the BGM/PA functions are accepted by the System frame. The System frame processes the input signals as they come in and routes the programmed response required to the		

	system		
	The Maximum of 40 units of System frame shall have the provision to accept up to 440 Control Inputs from the Fire Detection System, 320 remote microphone, 640 Output Zones & 160 inputs broadcast simultaneously		
7.1.1.1	Audio Input		
	The Audio Input shall be designed to be used in conjunction with the System frame, and comes with control input terminals, low-cut and high-cut filters, and gain controls. Frequency Response shall be 50 – 20k Hz		
7.1.1.2	Remote Microphone (2 units)		
	The Remote Microphone Input shall be designed to be used with the Remote microphone. At the back of the System frame input for Remote Microphones used in the system		
7.1.2	Power Amplifier (6 units)		
	It is module type w/ 1 channel of class D digital power amplifier with contribute to energy-saving and light weight design.		
	Built in top priority is automatically assigned to emergency broadcasts at all times. For general announcements made using inputs 1 to 3, BGM is automatically muted during the announcement. Broadcast priorities can be set for each input.		
	In addition to the standard chimes, a custom chime tone from the Voice Announcement Board can be combined with the announcements.		
	Three different power output: 150W, 300W, 500W		
	Power Amplifier, 150W / 300W / 500W		
	The amplifier shall be capable of operation from 20 – 40V DC. The amplifier shall come with channel power indicator. Frequency response shall be 40 – 16kHz. The amplifier shall be operating within a temperature range from -5°C to +45°C. The front panels finish and material shall be surface treated steel plate, black in color, 30% gloss paint. Output Voltage Selectable: 50V,70V & 100V		
7.1.3	Remote microphone extension (14 units)		

	One (1) System Remote Microphone shall be installed within the Control Console. The system shall also be capable of accommodating up to eight (8) Remote Microphones & One Fireman's Mic per frame to be located as indicated in the plans		
	At each System Remote Microphone, the following are the minimum actions that can be done: a. Announcements into individual speaker zones b. Announcements into groups of speaker zones All Call Announcements		
	Each System Remote Microphone shall be capable of being provided with as many as 105 programmable buttons for a one-touch initiation of programmed message broadcasts over identified programmed speaker zones		
	Each System Remote Microphone shall be with a button that allows the user to select or deselect the use of pre- or post-announcement chime from a selection of at least four chime tones		
7.1.4	Fireman's Microphone (1 unit)		
	Audio Output 0dB*, transformer-balanced, Frequency Response 200 – 15kHz Microphone Unidirectional dynamic microphone with talk key, AGC, (ON/OFF selectable), microphone element failure, detectable by using a built-in small oscillator, Connection Cable Shielded CPEV cable or Shielded Category 5 twisted pair cable (CAT5-STP) No. of Connectable Max. 5 units Expansion, Monitor Speaker Built inside, Operation Emergency key, Function keys, CPU switch, Reset switch, Indicator Status indicators, Power indicator, Failure indicator, CPU indicator, Selection indicators, Microphone indicator, Broadcast status indicator		
7.1.5	Desktop Paging Microphone with amplifier control unit		
	Can be installed on a desk or wall with the supplied mounting bracket a chime selected from 4-tone chime, 2-tone chime, and single-tone chime can be sounded by pressing the talk switch of the microphone with remote switch before		

	making the microphone announcement		
	Remote output (make contact output, contact capacity: 30 V DC, under 0.5 A) permits control of equipment having control input terminals interlocked with the talk switch on the paging microphone with remote switch		
7.1.6	CD Player / BGM Player (1 unit)		
	CD Player is a 1U 19 inch rack size all-in-one player that is capable of playing various audio source, such as CD, CD-R, CD R/W, USB, SD/MMC Card and FM Radio. In CD mode, CD, USB or SD/MMC Card can be selected as an audio source, while Tuner mode plays FM Radio. The FM radio tuner is able to store up to 30 channels in pre-set memory. Sleep function of up to 90min is available in Tuner mode. The 3 stereo output terminals (Tuner Out, Priority Out, CD Out) of this player offer flexibility in installations		
7.1.7	Voice Announcement Boards (built in)		
	Voice Announcement Boards shall be provided to allow simultaneous broadcast of at least two (2) pre recorded emergency messages from the Digital Announcer.		
	The Voice Announcement Board allows playback of up to eight (8) prerecorded messages per card		
	Recorded programs can be externally activated by either selecting the message selector key of the microphone or by sending the required signals to the Control I/O connector		
7.1.8	Digital Announcer		
	The Digital Announcer shall have LCD-displayed operation guides and handy selection of dial to facilitate recording and playback. The Digital Announcer shall be capable of having up to two (2) memory cards.		
	The Digital Announcer shall permit selection of at least eight (8) levels of recording sound quality to best suit a given situation.		
	The Digital Announcer shall allow recorded sentences to be combined and played back as a program. Up to 256 programs can be played back in the system from the Digital Announcer.		

7.1.9	Digital Ambient Noise Controller & Sensing Microphone		
	The Digital Ambient Noise Controller is the easy, automatic solution to the problem of keeping BGM and announcements audible and understandable when the ambient noise levels at an airport check-in counter or boarding gate, are higher because a large number of people are present. Furthermore, this controller also works to keep music and information audio from reaching levels that are irritating to customers and staff when the surrounding ambient noise levels are not so high		
7.1.10	Line Supervisory Unit (7 units)		
	Line Supervisory is highly reliable and efficient 10 channels line supervisory for measuring or monitoring the impedance of each speaker line. The status each of speaker line in normal, open or short condition is easily identified by the LED indicators		
	10 channels input from amplifier, 10 channels output to speaker line		
	10 normal, 10 open, 10 short LED Indicator & 20ohms -20kohms measurement range		
	10 channels attenuator bypass control NO and NC connector, 2x16 dot matrix LCD display		
7.1.11	Monitor Panel (3 units)		
	A major feature of the Monitor Panel is that there is a 12 segment LED meter for EACH input. The meters are active at all times so that all levels can be SIMULTANEOUSLY monitored. The meters are calibrated for 0.3W to 1,200W for 8 ohm speaker circuits and -30dB to +6dB *(ref 0.775V) for line level circuits.		
	Each individual input channel can also be aurally monitored through a high quality internal speaker or headphone jack. A front panel selector switch is used to select the channel to be monitored and an output level control adjusts the listening volume. The monitor circuit provides up to 3 watts output to the internal speaker		
7.1.12	Control Panel (9 units)		

	<p>8 function keys and 8 volume controls ($-\infty$ to 0 dB) , Up to 2 units can be connected to a single Frame, And a maximum of 80 units can be configured per system, [Volume Controls] allow to adjust volume level of the frames audio input or audio output (assignable)</p> <ul style="list-style-type: none"> • [Function Keys] are used for public address operation such as the activation of general broadcast. *Emergency broadcasting cannot be performed with these keys 		
7.1.13	Fault Indicator Panel		
	<p>There shall be a Fault Indicator Panel located in the Control Console to annunciate the existence of Faults in the system via an audible and visual signal. In addition to the general indication of the existence of a fault, there shall be a visual signal to identify the fault/s as being from which particular element group (e. g. amplifier failure, speaker line failure) and another visual signal to identify it as being from which zones (e. g. amplifier and speaker lines). All annunciated signals on the Fault Indicator Panel shall be relayed to and be indicated on the Building Management System.</p>		
	<p>Acknowledgment of the fault by pressing the appropriate button shall silence the audible alarm. However, the visual Fault light shall stay on until the fault has been rectified. When the fault has been rectified, pressing the Reset button will turn off the visual Fault light. (If the fault has not yet been rectified, pressing the Reset button does not cause the visual Fault light to extinguish</p>		
	<p>All system faults will be stored in the System Manager so that it can be downloaded to a PC when servicing is required. Up to 10,000 events & 1,000 Faults can be stored at one time</p>		
7.1.14	Ceiling Mounted Speakers (229 units)		
	<p>The ceiling mounted speaker shall be an integrated with a resin panel and speaker frame, ceiling mount speakers with a metal grille attached flush mounted with safe and secure spring clamp mechanism for easy speaker mounting to the ceiling. The input impedance can be easily changed by changing the tap position of</p>		

	the transformer.		
	<p>The speaker component shall be a 5” (12cm) cone type dynamic full range speaker. Power handling shall be 6W with a frequency response from 100 – 18k Hz and sensitivity of 90 dB SPL at 1 W input measured at a distance of 1 m.</p> <p>The line transformer shall accept 100 V and 70.7 V inputs with taps for 100 V lines 6 W (1.7k ohms), 3 W (3.3k ohms), 1.5 W (3.3k ohms), 1 W (10k ohms) and for 70 V line 3 W (1.7k ohms), 1.5 W (3.3k ohms), .5 W (10k ohms).</p> <p>The material and finish of the cover shall be Polypropylene resin, off-white in color to resist long term exposure to ultraviolet light. The speaker shall include a protective surface – PP resin, SECC punching net (treated steel plate net), off white paint to prevent damage.</p> <p>Weight of the assembly shall be 470g.</p> <p>Dimensions (Diameter x Height) 168 x 77 (D) mm</p>		
7.1.15	Horn Speaker ,weather proof (3 units)		
	<p>The paging horn speaker shall be a double re-entrant design suitable for paging and tone signaling distribution. The speaker component shall be a compression driver with a phenolic diaphragm to prevent deformation from heat and moisture. Power handling shall be 30 W. Impedance of non-transformer versions shall be 8 ohms.</p>		
	<p>The paging speaker shall include a matching transformer for connection to 100 V and 70.7 V speaker lines. Transformer wattage taps shall include 70.7 V: 15 W (330 ohms), 7.5 W (670 ohms), 5 W (1k ohms), 2.5 W (2k ohms),; 100 V line: 15 W (670 ohms), 10 W (1k ohms), 5 W (2k ohms). Sound pressure level measured at one m with one W of power applied from 500 to 2.5k Hz shall be 112 dB SPL. Frequency response shall be 280 - 10k Hz. Horizontal and vertical dispersion at -6 dB below the on-axis</p>		

	reference at 2k Hz shall be 55° H x 70° V. When used as a microphone, sensitivity referenced to 1k Hz, where 0 dB = 1 mW/10 dynes / cm ² shall be -22 dB		
	The paging horn shall comply with the IEC IP-65 standard for dust and moisture resistance and operate within a temperature range from -4° F to 131° F (-20° C to +55° C). The material / finish shall be horn flare: aluminum, off-white, powder coating, reflector horn and rear cover: ABS resin, off-white. All mounting hardware, including screws and bolts, shall be stainless steel. The paging horn shall include an integral speaker cable, insulated polyvinyl chloride type, with strain-relief		
	Dimensions (W x H x D) (222 x 179 x 234 mm). Weight shall be 1.3 kgs		
7.1.16	Volume Control		
	The volume control shall be flush-mounted and uses a transformer which allows connection of a wide range of loads (Selection 6W,30W,60W &120W). Volume can be adjusted in five (5) steps (0dB, -6dB, -12dB, -18dB, OFF). The volume control features shall be push-in terminals, each of which accepts two conductors for easy bridging. The material/finish shall be ABS resin, milk white in color for knob, panel, and plate. The case shall be ABS resin, black in color		
7.1.17	Wiring		
	Wiring shall be as per manufacturer's recommendation		
7.2	TRAINING Conduct Training and providing appropriate certification must be issued to the participants. i. Duration: 5 Days ii. Mode of Delivery: Face to Face Training iii. No. of Trainees: 5 Pax		
8.0	ONE YEAR LOCAL TECHNICAL SUPPORT		
	a. Provide 24 x 7 email, phone, remote and on-site technical support b. With Service Level Agreement (SLA). * 24X7 email, remote and		

	<p>on-</p> <ul style="list-style-type: none"> c. site support services provided to customers for supported systems. d. Ticket status and summary reports e. Annual technical assessment and review f. On-site support (within Metro Manila) <p>Severity Level Classification</p> <p>Service Level Agreement</p> <ul style="list-style-type: none"> a. <i>Severity Level 1</i> <ul style="list-style-type: none"> ▪ Stopping of programs affecting production data, rendering the system unusable, ▪ Complete loss of service ▪ Severity 1 issues have the following characteristics: <ul style="list-style-type: none"> - data corruption; - a critical documented function is not available; - system hangs indefinitely, - causing unacceptable or indefinite delays for resources or response; - system crashes, and crashes repeatedly after restart attempts - software-related issue that stops all monitoring, alerting, ticketing and reporting functions resulting in a loss of business productivity ▪ Response Time: Within 4 hours b. <i>Severity Level 2</i> <ul style="list-style-type: none"> ▪ Severe loss of service, ▪ Important features are unavailable with no acceptable workaround, but operations can continue in restricted fashion. ▪ Service interruptions to some, but not all software modules. ▪ Time sensitive issue reported by Customer, which may adversely affect operational, billing, monitoring and productivity 		
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	<ul style="list-style-type: none"> ▪ Response Time: Within 8 hours <p>c. <i>Severity Level 3</i></p> <ul style="list-style-type: none"> ▪ Minor loss of service Impact is inconvenience, which may require workaround to restore functionality ▪ For development environments, where the situation is causing your project to no longer continue or migrate into production ▪ Response Time: Within 20 hours <p>d. <i>Severity Level 4</i></p> <ul style="list-style-type: none"> ▪ Request information, an enhancement, or documentation on software, but no impact on operation of software. ▪ Recommendation for a future enhancement, reporting of documentation error with low- to-no impact in business. No loss of service. ▪ Response Time: Within 24 		
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TERMS OF REFERENCE

NAME OF PROJECT : Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022

LOCATION : DepEd Central Office

RATIONALE

The Department of Education Central Office has established the; (1) network infrastructure facilities that caters local network operations and internet connectivity, (2) Analog PABX for voice communication requirements. For several years, said facilities has continuously advanced the agency’s information processing capability. However, DepEd Central office has experienced slow to intermittent local and internet connectivity. With the help of Philippine Association of Government Electronics Engineers (PAGE), TID-ICTS of DepEd Central office conducted an ICT Infostructure Assessment and found out that there is a

need to upgrade the existing infrastructure since it can no longer provide to the current data transmission requirements, network security, voice and data integration requirements and overall network operation of the agency to effectively and efficiently monitor DepEd's Computerization Program (DCP) implementation.

To respond to this, DEPED CENTRAL OFFICE has embarked on the acquisition of upgraded network infrastructure and communications facility. The project is categorized into eight (8) different items.

1. FIBER OPTIC AND COPPER NETWORK STRUCTURED CABLING
2. NETWORK ACTIVE COMPONENTS
3. NETWORK AND GUEST MANAGEMENT SYSTEM
4. SECURITY MONITORING SYSTEM
5. DATA CENTER UPGRADING
6. IP TELEPHONY SYSTEM
7. UPS & BACKUP POWER SYSTEM
8. IP-BASED PUBLIC ADDRESS SYSTEM

OBJECTIVES

The overall objective of the project is to upgrade network infrastructure and communication facilities to be able provide a better user experience when accessing local area network and internet connectivity as well as utilizing communications facilities. The following specific objectives are the outcomes of the Technology Infrastructure Division's assessment:

1. Implementing a Fiber Optic Cable Network backbone from the following DepEd Central Office buildings to Data Center located in Mabini building and Category 6 copper horizontal distribution will provide a high-speed wide area network.
 - a. Bonifacio building
 - b. Rizal building
 - c. Alonzo building
 - d. Aguinaldo building
 - e. Dorm D
 - f. Dorm E
 - g. Amphitheater
2. Provide active network devices that are compatible with new fiber and copper horizontal cabling.
3. Utilize a cutting-edge Network and Guest Administration System to provide efficient network administration.
4. Using a 24x7 Security Monitoring System, provide a secure network infrastructure.
5. Upgrade Mabini Data Center by supplying cutting-edge SMART Data Center Cabinet Systems.
6. Provide an IP-based public address system that can be integrated with an IP telephony system.
7. Provide an emergency backup generator and Uninterruptible Power Supplies to eliminate data center power interruptions.
8. Provide capacity building to DepEd Central Office TID-ICTS technical personnel.

I. SCOPE OF WORK AND ACTIVITIES

1. The prospective bidder shall furnish all equipment, labor, materials, tools and equipment, and perform all operations necessary to complete the supply, delivery, installation, testing and commissioning of Fiber Optic Backbone Cabling, Copper Structured Cabling, Network Active Components, Network and Guest Management System, Security Monitoring System, Data Center Upgrading, Uninterrupted Power Supplies, IP Telephony, and IP-Based Public Address System of DepEd Central Office.

2. The prospective bidder shall provide warranty service within the warranty period. Provision of upgrades and patches to be installed must be free of charge during the warranty period. The Prospective bidder shall be responsible for all the cost related to the warranty period for hardware products.

3. Permits and Products Requirement

- a) The contractor shall be responsible for all required permits required for the project.
- b) For IT equipment, the proposed brand and product parts must be certified by the brand and product manufacturer as being readily available and serviceable for at least five (5) years after delivery and acceptance of goods.
- c) A twenty-five (25) year system warranty certificate shall be issued by the Cabling System Manufacturer after audit by a technical engineer from the Cabling System Manufacturer for the structured cabling system installed.
- d) All items that will be offered and delivered for the project must be brand-new, and the model (if applicable) must be current and not in “end of life” as reflected in the current product line found in the manufacturer’s official website, official product brochure, or similar literature, as well as in the Manufacturers’ Certificate issued for this purpose.

4. **Fiber Optic and Copper Network Structured Cabling:**

- a. Conduct of site survey and provisions of appropriate site specifications for the supplied materials.
- b. Submission of Proposed Detailed Plan/Design and Specifications for Fiber Optic Backbone Cabling and Copper Structured Cabling for Data, IP Telephony, Biometrics Devices and IP-Based Public Address.
- c. Submission of Project Management Plan
- d. Supply of labor, delivery and installation of various fiber, cables and components.
- e. Provision of the in-house wiring, including the Telco lines, from the cable entrance to the network rack where the active components are located.
- f. Supply, delivery, pulling and installation of Category 6 UTP cable, Fiber optic cable, information outlet, metal support for Cable Gutter, PVC conduits and other consumables.
- g. End to end Tagging and Labelling
- h. Conduct Testing and Commissioning
- i. Submission of Statement of Account (SOA) for the project.
- j. Provision of Technical documentation
- k. Conduct Training

5. **Network Active Components, Network and Guest Management System, and Security Monitoring System**

- a. Conduct of site survey and provisions of appropriate site specifications for the supplied materials.
- b. Submission of Proposed Detailed Design, Configuration and Specifications of Network Active Components, Network and Guest Management System, and Security Monitoring System
- c. Submission of Project Management Plan
- d. Provision of Technical documentation for equipment and Software.

- e. Supply and delivery of active components network and guest management system, and security monitoring system
- f. Supply of labor, installation and configuration of equipment and software.
- g. Conduct Testing and Commissioning
- h. Submission of Statement of Account (SOA) for the project.
- i. Conduct Training

6. Data Center Upgrading

- a. Conduct of site survey and provisions of appropriate site specifications for the supplied materials.
- b. Submission of Project Management Plan
- c. Supply of labor, delivery, and installation of Smart Data Cabinet System.
- d. Supply, delivery, installation, set-up and commissioning of the following equipment and materials:
 - Smart Cabinet System
 - Required Cables tray and other materials/accessories
 - Fiber Switch
 - Electrical Circuit Components which include but not limited to the following:
 - Circuit Breakers
 - Transfer Switch
 - Power Outlets
 - PVC conduits
 - Power Outlets for Server/ Computers, Air Conditioner, Emergency Lights
 - Other electrical components needed for the renovation.
 - Air Conditioning Unit
 - Fire Alarm System and access management equipment, components, and accessories
 - Rehabilitation of existing fire suppression system
- e. Carpentry/Masonry works:
 - Replacement of glass windows with finish concrete
 - Replacement of glass door with Steel Door
 - Finishing and paint works
- f. Conduct Testing and Commissioning
- g. Submission of Statement of Account (SOA) for the project.
- h. Provision of Technical documentation
- i. Conduct Training

7. IP Telephony System

- a. Conduct of site survey and provisions of appropriate site specifications for the supplied materials.
- b. Submission of Project Management Plan
- c. Provision of Technical documentation
- d. Supply, delivery, installation, set-up, integration of the following equipment and materials of IP Telephone System.
- e. Conduct Testing and Commissioning
- f. Submission of Statement of Account (SOA) for the project.
- g. Conduct Training

8. IP-Based Public Address System

- a. Conduct of site survey and provisions of appropriate site specifications for the supplied materials.

- b. Submission of Project Management Plan
- c. Provision of Technical documentation
- d. Submission of the Bill of Materials for the project.
- e. Supply, delivery, installation, set-up, integration of the following equipment and materials of IP-based Public Address System and IP Telephony.
- f. Conduct Testing and Commissioning
- g. Submission of Statement of Account (SOA) for the project.
- h. Conduct Training

9. Pre-installation

- a. The winning bidder and the end user must schedule a kickoff meeting within three (3) working days upon receipt of Notice to Proceed.
- b. Submit the following within seven (7) working days after the kickoff meeting:
 - i. Work Plan
 - ii. Project Timeline
 - iii. Engineering Design
 - iv. Project Management Plan
 - v. List of Manpower
 - vi. Other related documents

10. Installation

- a. Supply, deliver and install the required components as specified in the Terms of Reference.

11. Post-Installation

- a. Restore damages to property caused by excavation, installation, maintenance and/or removal of cabling equipment and other procedures conducted by the prospective bidder to accomplish the project.
- b. Conduct free training for IT personnel of DepEd Central Office on the basic maintenance and operational requirements of structured cabling and the equipment.
- c. Provide at least one (1) copy of the technical manual/documentation (English) in printed hard copy and electronic (soft copy) formats. The documents include Cabling and equipment installation, operation, configuration and testing.
- d. Render support services to DepEd Central Office within the warranty period.
- e. Technical support will be provided through phone calls or email within regular working hours from Monday to Friday, 8:00AM to 5:00PM
- f. If the supplied equipment is found defective and need to be pulled-out, the prospective bidder shall provide replacement with the same or higher specifications.
- g. Rectify and or/replace any part that fail to pass any test/inspection or make alteration necessary to meet the specification.
- h. Responsible and accountable for any damage caused solely by the Prospective bidder or its agent to the DepEd Central Office Building as a direct result of the installation maintenance, and removal of any cabling components and devices.

II. DUTIES AND RESPONSIBILITIES OF DEPED CENTRAL OFFICE

- 1. Assist prospective bidders during the conduct of site Survey.

2. The end user will review and approve the work plan submitted by Prospective bidder within seven (7) working days.
3. Grant the Prospective bidder authorized representative access to its premises and facilities located therein to perform its obligations, provided that such representative shall be accompanied by the duly assigned DepEd Central Office personnel.
4. Reject any unit or any part thereof that fail to pass any test and/or inspection or do not conform to specifications.
5. Pay the Prospective bidder in accordance with condition set in the Payment Scheme.
6. Issue a Certification of Inspection and Acceptance upon determination by the DepEd Inspectorate Team that the delivered and installed equipment and components are usable and in good working condition.

III. DELIVERY AND INSPECTION

1. The winning bidder shall complete the supply, delivery, installation, training, and maintenance of Department of Education Central Office network rehabilitation project within **100 calendar days** from the date of acceptance of Notice to Proceed.
2. The completion schedule provided shall be considered extended under the following:
 - a. Delays caused by force majeure events.
 - b. Delays caused by special cases and events beyond the control of the contractor, subject for evaluation and approval by DepEd Central Office.
 - c. In all cases, the period or number of days of extension shall be agreed upon with the DepEd Central Office in writing.
 - d. Claims for time extension of the contract period due to force majeure shall be subject to approval by the DepEd Central Office.
3. Force majeure includes events such as Earthquake, Flood, Typhoon, Cyclone, Revolution, War and other cataclysmic phenomena of nature and misfortune which are beyond human prudence and foresight.
4. All goods and/or items shall be delivered to the DepEd Central Office and are subject to visual/physical inspection by the DepEd Inspectorate Team based on the awarded specification.
5. Goods and/or items shall be rejected if not conformance to the technical specifications.
6. Any delays cause by the winning bidder shall be properly documented, communicated, and escalated to the DepEd-TID for merit and consideration.

IV. INSTALLATION

1. The contractor shall supply, deliver, and install Department of Education Central Office network rehabilitation project within or above the technical requirements as stated in the detailed technical specifications.
2. The contractor shall provide the required safety and security tools and the same in carrying the work such as safety shoes, safety hat, safety goggles, safety harness and others.
3. The contractor shall communicate, coordinate and shall comply DepEd – ICTS - TID internal work permitting procedures and requirements prior to the commencement of the actual work.
4. DepEd Central Office shall not be responsible for lack of materials and equipment to be supplied by the winning Bidder. It shall be the sole responsibility of the winning bidder to assess and re-assess on the Materials to be supplied to the Agency and shall be DepEd Central Office's property.

5. Unused and excess equipment and materials shall be turned over to DepEd - TID - ICTS at the end of the installation and commissioning period.

V. COMMISSIONING, TESTING AND ACCEPTANCE

1. The winning bidder must conduct commissioning and testing ensure the maximum level of reliability by reviewing and testing the physical design of the network infrastructure as a whole.
2. The winning bidder may request for approval of schedule for joint commissioning and testing from ICTS -TID and DepEd Inspectorate team at least 7 days after all active components are power up and functional.
3. The joint testing scope will include the quality and functionality of the installation and/or equipment and the workmanship.
 - a. Fiber Splicing and Termination Acceptance Test **(Annex E)**
 - b. Cat6 Cabling Acceptance Test **(Annex F)**
 - c. Switch Stress and Functionality Test. **(Annex G)**
4. Any defect(s) observed on the commissioning and testing shall be properly documented. All defect(s) shall be rectified by the contractor within five (5) days and subject for another specific joint acceptance test provided that the activities are free of cost to DepEd.
5. Upon completion of Commissioning and Testing, DepEd shall issue a certificate of acceptance subject for payment
6. Nothing in this clause shall in any way relieve the winning bidder from any warranty or other obligations under this Contract.

VI. DOCUMENTATION

1. As-built drawing duly signed and sealed by the Professional Electrical Engineer, Professional Electronics Engineer, Civil Engineer, and Mechanical Engineer
2. 25 years cabling certification from the manufacturer.
3. Technical manual/brochure (English) in printed and electronic (soft copy) format.
4. Warranty certification from the Equipment Manufacturer
5. Documentation on equipment installation, operation, configuration, and testing.

VII. WARRANTY

1. One (1) year warranty certificate shall be issued by the Solution provider for the following units:
 - f. UPS, 3.0KVA
 - g. UPS, 1.5KVA
 - h. Gent set
 - i. ATS
 - j. Day tank
2. Three (3) years warranty certificate shall be issued by the Solution provider for the following network equipment:
 - f. Core switch
 - g. Distribution Switch
 - h. PoE Access Switch
 - i. Wireless Access Point
 - j. Wireless Controller
3. Three (3) years subscription and warranty for the following network management:
 - c. Network Management System
 - d. Guest and BYOD Management System

4. Three (3) year subscription and warranty for the following management and security products:
 - j. Endpoint Security
 - k. Security Intelligent Threat Detection and Response Platform
 - l. Security Operations Management
 - m. IT Helpdesk System (Enterprise)
 - n. IT Operations Management: Applications Management software (Enterprise)
 - o. Unified Endpoint Management and Security Software (Enterprise)
 - p. NGFW Unified Threat Protection (UTP) (IPS, Advanced Malware Protection, Application Control, URL, DNS & Video Filtering, Antispam Service)
 - q. Link Load balancer
 - r. Hyper-Converged Infrastructure Appliance
5. Three (3) years warranty for the following Data Center Components:
 - a. Smart cabinets
 - b. ACU
 - c. Door Access Control System
 - d. Fire Suppression System
 - e. Lighting System
6. Three (3) years warranty for the following IP Telephony and IP Based Public Address System:
 - c. IP Telephony System
 - d. IP Based Public Address System
7. A twenty-five (25) year system warranty certificate shall be issued by the Cabling System Manufacturer after audit by a technical engineer from the Cabling System Manufacturer for the structured cabling system installed.
8. The warranty shall cover for twenty-five (25) years the following:
 - e. Products (fiber patch panels, pigtails, adapter plates, fiber patch cords)
 - f. Fiber Optic Cables
 - g. Products (Patch Panel, UTP jack, Faceplate, patch cord)
 - h. UTP Cable

VIII. TERMS OF PAYMENT

Supplier may submit a request for payment based on the Progress Reports which shall be attached to the progress billing and include the following: (i) Cumulative value of the work delivered based on the schedule of deliveries and other relevant terms and conditions of the contract; and (ii) Inspection and Acceptance Reports, including certification by Supplier, as approved by the duly authorized DepEd representative, that the items have been delivered and/or properly installed and commissioned in accordance with the contract.

The method and conditions of payment to be made to the Supplier through the Government disbursement procedure within sixty (60) days after the date of acceptance of Goods at the delivery site and upon submission of documents under this contract shall be as follows:

Advance Payment

- A mobilization fee of fifteen percent (15%) of the contract amount shall be allowed and paid within sixty (60) calendar days from signing of the contract. An irrevocable letter of credit or bank guarantee of an equivalent amount must be submitted and shall remain valid until the goods and services are delivered and accompanied by a claim for mobilization payment.

Progress Payment

1. Subject to the provision on advance payment and other deductions herein provided, progress payment shall be paid to the Supplier in accordance with the following schedule: **Please refer to Annex D – Terms of Payment**
 - a. The statement of work accomplished must be certified by DepEd's Representative/Project Engineer. Materials and equipment delivered on the site but not completely installed and in operation shall not be included for payment.
2. DepEd shall deduct the following from the certified gross amounts to be paid to the Supplier as progress payment:
 - a. Cumulative value of the work previously certified and paid for
 - b. Portion of the advance payment to be recouped for the month.
 - c. Retention money in accordance with the condition of contract
 - d. Amount to cover third party liabilities
 - e. Amount to cover uncorrected discovered defects in the works.
3. Payment Certificates
 - a. The Contractor shall submit to the Procuring Entity's Representative estimated value of the work executed per milestone.
 - b. The Procuring Entity's Representative shall check the Contractor's submission and certify the amount to be paid per milestone.
4. Payment shall be made within sixty (60) calendar days after the date of acceptance of goods and services at the Project Site and upon submission of the following documents:
 - a. Milestones 1, 2 and 3
 - i. Request for payment for Work accomplished.
 - ii. Approved Engineering Design
 - iii. Billing / Invoice
 - iv. Signed Delivery Receipts
 - v. Signed Inspection and Acceptance Report (IAR)
 - b. Milestone 4
 - i. Request for Payment
 - ii. Statement of Account (SOA) / Billing / Invoice
 - iii. Signed Attendance Sheet
 - iv. Submission of Training Manual
 - v. Certificate of Acceptance for the conduct of training

Final Payment

1. Final payment shall constitute release of the retention money in case of expiry of the warranty period, or in case of use in part of the retention money by reason of a call upon the warranty, the final payment shall constitute the release of the balance amount.
2. All progress payments shall first be charged against the advance payment until the latter have been fully recouped.

IX. OTHER REQUIREMENTS

1. The prospective bidder must conduct a Site Survey/Inspection prior to submission of bids at their own expense. Addition to which, the following should be met:
 - a. Prospective bidder must provide the list of personnel that would be onsite to conduct the site survey.
 - b. Prospective bidder shall provide photocopies (2 copies) of Company Issued ID at the time of inspection attached to the Letter request for Site survey/inspection.

2. Other documentary requirements to be submitted by bidder:
 - a. Proposed design, configuration, and specifications of offered design, systems and technology shall show compliance, compatibility and best fit to the desired systems subject for evaluation of the procuring entity.
 - b. Proposed Work Plan and Detailed Implementation Schedule for the Project covering the whole period. Prospective Bidders are required to conduct site inspection. This is to ensure the reliability, security, and efficiency of the required services that the prospective bidder shall perform. Timeframe should be specified for each activity to be done and shall include Gantt Chart Summary.

STATEMENT OF COMPLIANCE

I hereby commit to provide the above specified requirements in compliance with the Technical Specifications and Terms of Reference for the Project: **Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022.**

Name and Signature of Bidder's Authorized Representative

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) **in accordance with Section 8.5.2 of the IRR;**

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; **and**
- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission **or** Original copy of Notarized Bid Securing Declaration; **and**
- (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (f) Original duly signed Omnibus Sworn Statement (OSS) **and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (g) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC) **or A** committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class “B” Documents

- (h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (i) Original of duly signed and accomplished Financial Bid Form; **and**
- (j) Original of duly signed and accomplished Price Schedule(s).

See **Annex “__”** for the Price Schedule Form.

Other documentary requirements under RA No. 9184 (as applicable)

- (k) *[For foreign bidders claiming by reason of their country’s extension of reciprocal rights to Filipinos]* Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- (l) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

LIST OF ALL ONGOING GOVERNMENT & PRIVATE CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

Business Name : _____

Business Address : _____

Name of Contract/ Project Cost	Owner's Name a. Address b. Telephone Nos.	Nature of Work	Bidder's Role		Date Awarded a. Date Started b. Date of Completion	% of Accomplishment		Value of Outstanding Works / Undelivered Portion
			Description	%		Planned	Actual	
<u>Government</u>								
<u>Private</u>								

Note: (In case of no ongoing contract, the bidder shall submit this duly signed form and indicate **“No ongoing contracts”** or **“None”** or **“Not Applicable (N/A)”** under the Column for Name of Contract (first column from left)

Submitted by: _____

Printed Name and Signature of Authorized Representative

Designation: _____

Date: _____

STATEMENT IDENTIFYING THE SINGLE LARGEST COMPLETED CONTRACT

Business Name : _____

Business Address : _____

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Amount at Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed d. Contract Performance certified by End User
			Description	%		
<u>Government</u>						
<u>Private</u>						

Note: The bidder shall be able to support this statement with:

Duly signed Contracts/Purchase Orders (POs)/ Agreements/Memoranda of Agreement (MOA)/Notices of Award (NOA)/Job Orders or Notices to Proceed (NTP) with the corresponding

Certificates of Completion of Delivery (CCDs)/ Certificates of Final Acceptance (CFAs)/duly signed Delivery Receipts (DRs), or duly accomplished Inspection and Acceptance Reports (IARs)

Submitted by : _____

(Printed Name and Signature)

Designation : _____

Date : _____

Joint Venture Agreement Form

KNOW ALL MEN BY THESE PRESENTS:

That this JOINT VENTURE AGREEMENT is entered into By and Between _____, of legal age, (civil status), owner/proprietor of _____ and a resident of _____.
- and -

_____, of legal age, (civil status), owner/proprietor of _____ and a resident of _____.

THAT both parties agree to join together their manpower, equipment, and what is needed to facilitate the Joint Venture to participate in the Eligibility, Bidding and Undertaking of the hereunder stated project to be conducted by the (Name of the Procuring Entity).

NAME OF PROJECT	CONTRACT AMOUNT

That both parties agree to be jointly and severally liable for the entire assignment.

That both parties agree that _____ and _____ own the share and interest of _____ and _____ [indicate percentage of shares] respectively

That both parties agree that _____ and/or _____ shall be the Official Representative of the Joint Venture, and is granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the bidding as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

THAT this Joint Venture Agreement shall remain in effect only for the above stated Projects until terminated by both parties.

Done this _____ day of _____, in the year of our Lord _____.

SIGNED IN THE PRESENCE OF:

Witness

Witness

REPUBLIC OF THE PHILIPPINES) S.S.
PASIG CITY, METRO MANILA)

A C K N O W L E D G M E N T

BEFORE ME, a Notary Public in and for Pasig City, Metro Manila, Philippines, this _____ day of _____, 201_ personally appeared:

<u>NAME</u>	<u>GOVERNMENT-ISSUED IDENTIFICATION CARD</u>		
	<u>Number</u>	<u>Issued on</u>	<u>Issued at</u>
_____	_____	_____	_____
_____	_____	_____	_____

Known to me and to me known to be the same persons who executed the foregoing instrument and acknowledged to me that same is the free and voluntary act and deed of the entities which they respectively represent.

The foregoing instrument is a JOINT VENTURE AGREEMENT consisting of pages (exclusive of attachments), including this page on which this acknowledgment is written and signed by the parties hereto and their instrument witnesses on the left hand margin of each and every page hereof.

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

NOTARY PUBLIC
Until December 31, 20__

Doc. No. _____
Page No. _____
Book No. _____
Series of 20__

NET FINANCIAL CONTRACTING CAPACITY (NFCC) FORM

A. Summary of the Applicant Supplier’s/Distributor’s/Manufacturer’s assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped “RECEIVED” by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar/tax year which should not be earlier than two (2) years from date of bid submission.

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = K (current asset – current liabilities) minus value of all outstanding works under ongoing contracts including awarded contracts yet to be started

NFCC = P _____

K = 15 regardless of contract duration

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped “RECEIVED” by the BIR or its duly accredited or authorized institution for the preceding year which should not be earlier than two (2) years from date of bid submission.

Submitted by:

Name of Supplier / Distributor / Manufacturer

Signature of Authorized Representative

Date : _____

NOTE: If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

Performance Securing Declaration (Revised)
[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

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

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents]
To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

*[Insert NAME OF BIDDER OR ITS
AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant*

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]



Republic of Philippines
DEPARTMENT OF EDUCATION
DepEd Complex, Meralco Avenue, Pasig City



PROJECT: **Supply, Delivery, Installation, Testing, Training and Maintenance of Department of Education Central Office Network Rehabilitation Project 2022**

CONTRACT NO.:

CONTRACT

THIS CONTRACT made and entered into this _____ day of _____ 2023 by and between the **DEPARTMENT OF EDUCATION**, located at DepEd Complex, Meralco Avenue, Pasig City, represented herein by its _____, _____, as per Department Order No. 001, s. 2023 and Office Order OO-OSEC-2023-60 (hereinafter referred to as “**DEPED**”); and _____, represented herein by its _____, _____, with office address at _____ (hereinafter referred to as “_____”), as per (Omnibus Sworn Statement/Secretary’s Certificate/Special Power of Attorney) dated _____ (hereto attached as Annex “A”).

DEPED and _____ are collectively called **PARTIES**.

WHEREAS, DEPED invited bids for the _____ consisting of _____ lots, and received bids from _____ for Lot No. ____; **DEPED** opened, read, and evaluated the bids of the bidders and declared _____ as having the Lowest Calculated Bid for Lot No. ____; after evaluation, **DEPED** post-qualified and declared the bid of _____ as the Lowest Calculated Responsive Bid for Lot No. 1 in the sum of **PHILIPPINE PESOS _____ MILLION, _____ THOUSAND, _____ HUNDRED and ____/100 (PhP _____) ONLY**, (hereinafter called the “Contract Price”) detailed as follows:

Lot No. (if applicable)	Description	Amount (PhP)

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract, words and expressions shall have the same meaning as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Contract, viz:
 - a. Resolution to Award No. _____ dated _____;
 - b. Philippine Bidding Documents;

- i. General and Special Conditions of the Contract;
 - ii. Schedule of Requirements; and
 - iii. Technical Specifications;
 - iv. Bid Bulletin No. _____ dated _____;
 - c. _____'s bid, including the eligibility requirements, technical and financial proposals, and all other documents or statements submitted;
 - d. Performance Security;
 - e. Notice of Award (NOA) of Contract and _____'s conforme thereto; and
 - f. Other contract documents required by existing laws and/or DepEd in the Bidding Documents. _____ agrees that additional contract documents of information prescribed by the Government Procurement Policy Board (GPPB) that are subsequently required for submission after the contract execution such as, but not limited to, Notice to Proceed, Variation Order, and Warranty Security, shall form part of the Contract.
3. _____ shall post a Performance Security within 10 calendar days from receipt of the NOA in the form and amount prescribed therein. The Performance Security shall be posted in favor of **DEPED**, and shall be forfeited in the event that it is established that _____ is in default of any of its obligations under this Contract. _____ shall be responsible for the extension of its performance security and/or undertake to renew its Performance Security whenever necessary, and without the need for prior notice of instruction from **DEPED**, to ensure that it is in force and effect for the whole duration of the Contract and until a Certificate of Final Acceptance is duly issued.
4. The goods and services referred to in this Contract shall be delivered and rendered by _____ at _____ within _____ calendar days from the receipt of the Notice to Proceed (NTP) or as may be indicated in the NTP. _____ shall ensure that the goods will be delivered and services will be rendered in accordance with the Schedule of Requirements, which is hereto attached as Annex "B" and made an integral part hereof.
- Goods delivered and services rendered to sites other than the designated delivery site without **DEPED**'s written authorization and/or approval may be rejected by the latter. Violation of this provision, based on documents and reports submitted and validated by the authorized receiving personnel may be cause for the termination of the Contract.
5. Pre-Delivery and Pre-Implementation Conference shall be conducted prior to the inspection of goods by the designated DepEd Inspectorate Team, as may be applicable and necessary.
6. **DEPED** shall have the right to visit and inspect _____'s premises covered by the Contract at any time or stage of the contract implementation

to monitor and assess _____'s capacity to discharge its contractual obligations.

7. Prior to and for purposes of inspection, _____ shall ensure convenient access to the goods for inspection. _____ shall assign personnel to undertake the handling, unpacking, assembly, commissioning, disassembly, repacking, resealing, and sorting of the goods prior to, during, and after inspection.
8. The goods shall be inspected by the designated DepEd Inspectorate Team. _____ shall coordinate with **DEPED**, through the Procurement Management Service-Contract Management Division (ProcMS-CMD), on the conduct of inspection or pre-delivery inspection (PDI). Any request for inspection or PDI shall be done in writing, and submitted in accordance with SCC Clause 4 of the Bidding Documents.
9. The goods and services must conform to and comply with the standards mentioned in Section VI. Schedule of Requirements of the Bidding Documents, and must be in accordance with the approved terms of reference, and final technical specifications as approved by the Bids and Awards Committee, or as amended by subsequently issued Bid Bulletin, if any, based on the samples submitted by _____, and reflected in the post-qualification report, which is hereto attached as Annex "C" and made an integral part hereof.

Any proposal by _____ to deliver goods of different technical specifications and perform services, in lieu of those approved bids or samples, shall not be allowed. However, under justifiable circumstances, i.e. fortuitous events, force majeure, acts of God, public state emergency, or those defined under the Civil Code and other similar circumstances, delivery of goods of equivalent, higher, or superior technical specifications may be permitted, subject to the evaluation and favorable recommendation of the **DEPED**'s end-user or implementing unit, and the approval of the herein authorized signatory. In any such case, the proposal by _____ for substitution shall be in writing and shall not result in any additional cost or undue burden to **DEPED**.

10. Goods with defects or non-compliant with the required technical specifications upon delivery shall be rejected, orally or in writing, by **DEPED** and replaced by _____ in accordance with the warranty provisions in the bidding documents. The replacement of the goods shall be subject to re-inspection.
11. In case _____ encounters condition(s) impeding timely delivery of the goods and performance of services, _____ shall promptly notify **DEPED** in writing within five (5) calendar days from notice of such condition(s). Any request for work suspension and/or contract period extension shall be promptly done in writing as soon as circumstances for such request have become apparent. _____ must provide sufficient proof to support any request for work suspension and/or contract period extension.
12. The Contract Price shall be paid to _____ in accordance with the following disbursement procedures:

- a. _____ may submit a request for payment based on the following:
- i. Actual value of services rendered and quantity of goods delivered based on the schedule of delivery and other relevant terms and conditions of the Contract;
 - ii. Duly signed Delivery Receipt/s; and
 - iii. Duly signed Inspection and Acceptance Report/s (IAR/s), including certification by _____, duly signed and dated by the authorized representative of **DEPED** indicating that the goods have been delivered and required services have been rendered in accordance with the Contract.
 - iv. Approved commissioning and testing report, as applicable;
 - v. Approved engineering design, as applicable; and
 - vi. Certificate of Acceptance for the conduct of training, including the training manual and signed attendance sheet, as applicable.

Other documents in support of a request for payment may be required by **DEPED** pursuant to existing disbursement, accounting, and auditing rules and procedures.

- b. Payment shall be made to ____ within 60 days from submission of the documents specified in SCC Clause 2.2 and other documents as may be prescribed by **DEPED** in the following manner:
- i. Progress payment shall be paid to the Supplier/Service Provider in accordance with the following schedule:

Milestone	Description	Works to be accomplished	Percentage of the Contract Price

- ii. Final payment shall consist of the full and final payment of the unpaid inspected and accepted goods, subject to the submission of the required documents under the Bidding Documents; and

13. Payment shall be subject to the “Warranty” provision in the form of either retention money in an amount equivalent to ___ percent (___%) of the progress payment or a Special Bank Guarantee in an amount equal to ___ percent (___%) of the Contract Price required under Section 62 of RA 9184 and its revised IRR.

- a. Comprehensive and on-site warranty for the goods shall be applied, detailed as follows:

Items	Warranty Period

The said warranty periods reckon from the date of the issuance of the Certificate of Final Acceptance by **DEPED**.

- b. Replacement and/or repair of the goods may be requested within the aforementioned warranty periods. Replacement of the goods shall be made within seven (7) calendar days upon claim or request therefor. The said replacement must be of the same branding specification and installed prior to pull-out of the defective or unrepairable unit/s. On-site repair of the goods must be made on the next business day upon claim or request therefor.
 - c. In case _____ opts for retention money, the amount shall be released at the expiration of the warranty period or the remaining amount in case it has been utilized pursuant to the warranty provision unless, during the remainder of the warranty period, the retention money is substituted with a special bank guarantee.
14. Each party in the performance of their respective duties and responsibilities under this Contract and in the implementation thereof shall adhere to Republic Act No. 10173, otherwise known as the “Data Privacy Act of 2012.” Any gathered data and information should be protected and respected during the term and even after the termination of this Contract. The processing of any gathered data and information should be in compliance with the confidentiality and privacy requirements under the said law and applicable regulations.
15. _____ shall be liable for liquidated damages in an amount equal one-tenth (1/10) of one percent (1%) of the cost of the delayed goods scheduled for delivery, for every day of delay until such goods are finally delivered and accepted by **DEPED**. **DEPED** shall deduct the liquidated damages from any money due or which may become due to _____, or collect from any of the securities or warranties posted by _____, whichever is convenient to **DEPED**. Once the accumulated amount of liquidated damages reaches 10% of the Contract Price, **DEPED** may rescind or terminate the Contract, without prejudice to other courses of action and remedies available under the circumstances.
16. The **PARTIES** shall make every effort to resolve amicably and by mutual consultation any and all disputes or differences arising between the **PARTIES** in connection with the implementation of the Contract. Should such dispute not be resolved amicably, it shall be submitted to Early Neutral Evaluation pursuant to Republic Act No. 9285 or the “Alternative Dispute Resolution Act of 2004”, and its Implementing Rules and Regulations.

IN WITNESS WHEREOF, the **PARTIES** hereto have caused this Contract to be executed in accordance with governing laws on the day and year first above written.

SIGNED, SEALED AND DELIVERED BY:

Department of Education

SIGNED IN THE PRESENCE OF:

DEPED's Witness

_____ 's Witness

CERTIFIED FUNDS AVAILABLE:

Chief Accountant

REPUBLIC OF THE PHILIPPINES)
_____, METRO MANILA) S.S

ACKNOWLEDGMENT

BEFORE ME, a Notary Public in and for _____, Philippines, this
____ day of _____ 2023 personally appeared:

NAME

GOVERNMENT ISSUED ID
(Number, Issued On, Issued By)

Department of Education

Known to me and to me known to be the same persons who executed the foregoing instrument and acknowledge to me that the same is the free and voluntary act and deed of the entities which they respectively represent.

The foregoing instrument is a CONTRACT consisting of six (6) pages (exclusive of attachments), including this page on which this acknowledgment is written and signed by the parties hereto and their instrument witness on the left-hand margin of each and every page hereof.

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

Doc. No. ____;
Page No. ____;
Book No. ____;
Series of 2023.

NOTARY PUBLIC

Bid Security (Bank Guarantee) Form

WHEREAS, *[insert name of Bidder]* (hereinafter called the "Bidder") has submitted its bid dated *[insert date]* for the *[insert name of contract]* (hereinafter called the "Bid").

KNOW ALL MEN by these presents that We *[insert name of Bank]* of *[insert name of Country]* having our registered office at *[insert address]* (hereinafter called the "Bank" are bound unto the *DEPARTMENT OF EDUCATION Central Office*, (hereinafter called the "Entity"), in the sum of *[insert amount]* for which payment well and truly to be made to the said Entity the Bank binds itself, its successors and assigns by these presents.

SEALED with the Common Seal of said Bank this ___ day of _____ 201_.

THE CONDITIONS of this obligation are:

1. If the Bidder:
 - (a) withdraws its Bid during the period of bid validity specified in the Form of Bid; or
 - (b) does not accept the correction of arithmetical errors of its bid price in accordance with the Instructions to Bidder; or
2. If the Bidder having been notified of the acceptance of its bid by the Procuring Entity during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders.

We undertake to pay to the Entity up to the above amount upon receipt of its first written demand, without the Entity having to substantiate its demand, provided that in its demand the Entity will note that the amount claimed by the Entity is due to the Entity owing to the occurrence of one or both of the two (2) conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date *[insert days]* days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Entity, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____

WITNESS _____
(Signature, Name and Address)

SIGNATURE OF THE BANK _____

SEAL _____

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

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

BID SECURING DECLARATION **Project Identification No.: *[Insert number]***

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this day of *[month]* *[year]* at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS
AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant*

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)
[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with the law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

- a. Carefully examining all of the Bidding Documents;
- b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
- c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
- d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of __, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

Jurat

[Format shall be based on the latest Rules on Notarial Practice]

Performance Security (Bank Guarantee) Form

To : The Secretary
Department of Education
DepEd Complex, Meralco Avenue
Pasig City

Attention: The Chairperson
Bids and Awards Committee

WHEREAS, [insert name and address of Supplier] (hereinafter called the "Supplier") has undertaken, in pursuance of Contract No. [insert number] dated [insert date] to execute [insert name of contract and brief description] (hereinafter called the "Contract");

AND WHEREAS, it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS, we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE, we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of [insert amount of guarantee] proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of [insert amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed there under or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date of your issuance of the Notice of Final Acceptance.

SIGNATURE AND SEAL OF THE GUARANTOR

NAME OF BANK

ADDRESS

DATE _____

FINANCIAL BID FORM

Date: _____
Project N^o: _____

The Secretary
Department of Education
DepEd Complex, Central Office
Meralco Avenue, Pasig City

Attention: The Chairperson
Bids and Awards Committee

Gentlemen and/or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[description of the Goods]* in conformity with the said Bidding Documents for the sum of *[total Bid amount in words (and figures)]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

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 BDS provision for ITB Clause 17.1 and 18.2, respectively, and it shall remain binding upon us and may be accepted at any time before the expiration of that bid validity 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.

We likewise certify/confirm that the undersigned, *[for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of Name of Bidder, has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the Name of Project of the Name of the Procuring Entity] [for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the Name of Bidder, to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for Name of Project of the Name of the Procuring Entity].*

We, further, confirm that, for purposes of this bid, and if such Bid is accepted, the address stated below shall be the Supplier's official address and contact numbers, as reflected in the *(state proof of billing e.g. PhilGEPS Certificate, Mayor's Permit, SEC, Tax Clearance)*

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Dated this _____ day of _____ 20_____.

[signature over printed name of
Authorized Representative]

[in the capacity of _____]
(designation of Authorized Representative)

Duly authorized to sign Bid for and on behalf of _____
[Registered Company/Business Name of the Bidder]

Address : _____ Telephone No : _____
Telefax: _____ Email address : _____

BANK GUARANTEE FORM FOR ADVANCE PAYMENT

To: **Department of Education**
[name of Contract]

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause of the General Conditions of Contract to provide for advance payment, *[name and address of Supplier]* (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of *[amount of guarantee in figures and words]*.

We, the *[bank or financial institution]*, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding *[amount of guarantee in figures and words]*.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the PROCURING ENTITY and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[date]*.

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

SEALING AND MARKING OF BIDS

GOODS AND SERVICES

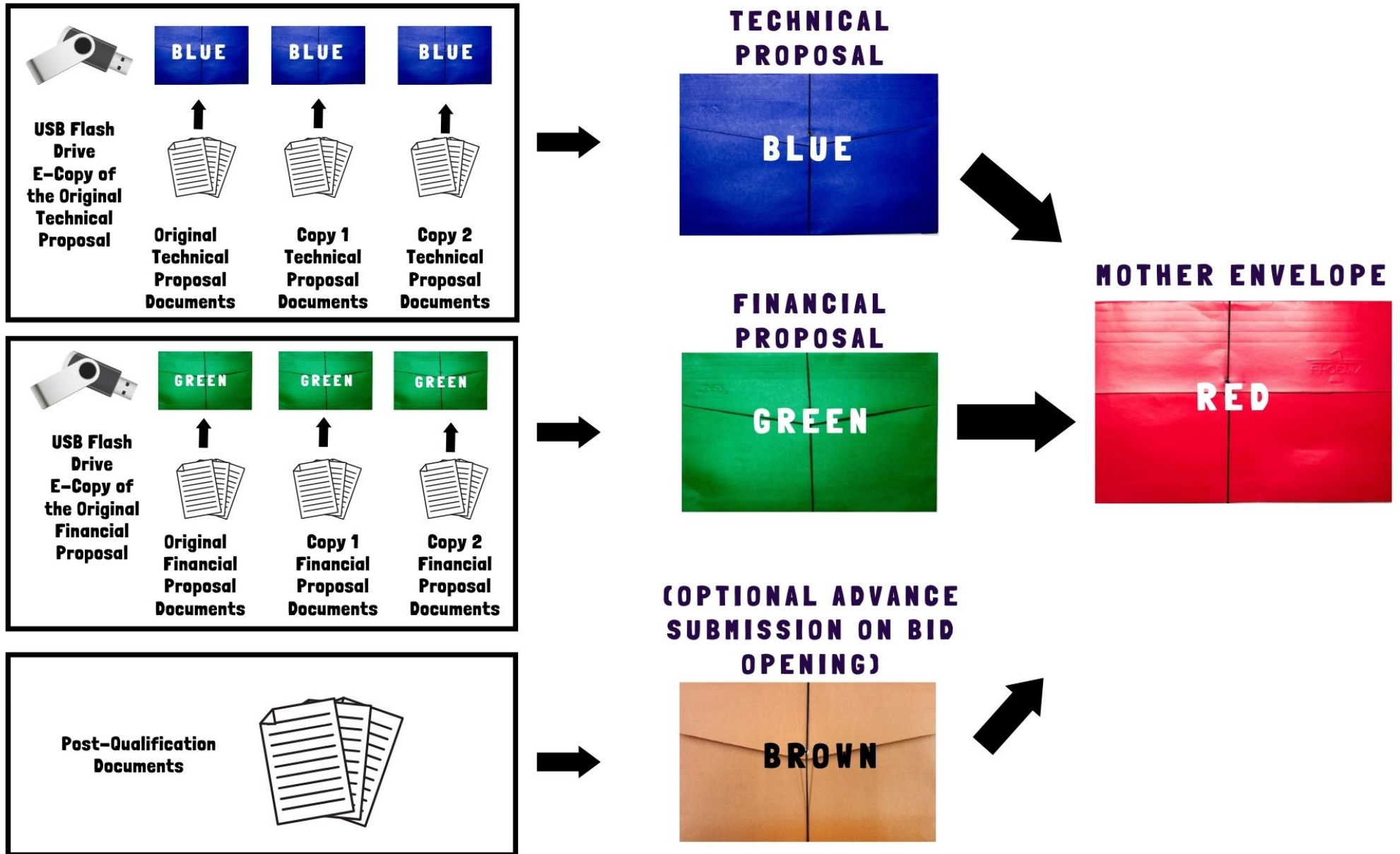


Illustration 1

ORIGINAL / COPY NO. ____

[BIDDER'S COMPANY NAME]

[COMPANY'S OFFICE ADDRESS] PUBLIC BIDDING:

[PROJECT TITLE]:

BIDDING FOR [no.] : [item description] (if applicable)

THE CHAIRPERSON BIDS AND AWARDS COMMITTEE
DEPARTMENT OF EDUCATION CENTRAL OFFICE
[VENUE OF BID OPENING]

DO NOT OPEN BEFORE [TIME AND DATE OF BID OPENING]

Republic of the Philippines



Government Procurement Policy Board