

PHILIPPINE BIDDING DOCUMENTS

Supply, Delivery, and Installation for GPPB-TSO Local Area Network (LAN) Project

ITB-2023-003

**Government of the Republic of
the Philippines**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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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.

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])

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

**INVITATION TO BID FOR SUPPLY, DELIVERY AND
INSTALLATION FOR GOVERNMENT PROCUREMENT POLICY
BOARD – TECHNICAL SUPPORT OFFICE LOCAL AREA
NETWORK (LAN) PROJECT**

1. The *Government Procurement Policy Board-Technical Support Office (GPPB-TSO)*, through the *General Appropriations Act FY 2023* intends to apply the sum of *Six Million Pesos (PhP6,000.000.00)* being the ABC to payments under the contract for *ITB-2023-003*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *GPPB-TSO* now invites bids for the above Procurement Project. Delivery of the Goods is required as stated in the schedule of requirement. Bidders should have completed, within five (5) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
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.
 - a. 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 *GPPB-TSO* and inspect the Bidding Documents at the address given below during *office hours from 7:00AM - 5:00PM from Monday to Friday*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *21 March 2023* from the given address and website(s) below *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP10,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *in person or through Landbank Link.Biz Portal*
6. The *GPPB-TSO* will hold a Pre-Bid Conference¹ on *29 March 2023, 9:00AM* through video conferencing or webcasting *via Zoom* which shall be open to prospective bidders and can be accessed through this link:
<https://zoom.us/j/93615804767?pwd=Y2RsUFVMN1FUYWFRUjF4U0RHZC9Pd09>

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a Pre-Bid Conference.



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7. Bids must be duly received by the BAC Secretariat through manual submission on or before *20 April 2023, 1:00PM*. 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 **ITB** Clause 14.
9. Bid opening shall be on *20 April 2023, 1:00PM*. at the given address. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The *GPPB-TSO* 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:

Richelson A. Manaois
Government Procurement Policy Board – Technical Support Office
Unit 2504 , Raffles Corporate Center, F. Ortigas Jr. Road, Ortigas Center,
Pasig City
bacsec@gppb.gov.ph
7900-6741 to 44
<http://www.gppb.gov.ph/>

12. You may visit the following websites:

For downloading of Bidding Documents: <http://www.gppb.gov.ph/>

21 March 2023

JULIE D. ABRIGO
BAC Chairperson



Republic of the Philippines
GOVERNMENT PROCUREMENT POLICY BOARD
TECHNICAL SUPPORT OFFICE



Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Government Procurement Policy Board – Technical Support Office* wishes to receive Bids for the *Supply, Delivery, and Installation for GPPB-TSO Local Area Network (LAN) Project*, with identification number *ITB-2023-003*.

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *FY 2023* in the amount of *Six Million Pesos (PhP6,000.000)*.

2.2. The source of funding is:

a. NGA, the General Appropriations Act or Special Appropriations.

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 limited to those allowed under the rules may participate in this Project.

- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:
- a. For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.
- 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

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

- a. 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 Unit 2506 25th Floor Raffles Corporate Center, Emerald Avenue, Ortigas Center, pasig City or MPhilGEPS 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 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.
- 11.5.

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, listed in the **BDS**.
 - b. For Goods offered from abroad:

- i. Unless otherwise stated in the **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 the **BDS**.

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:
 - a. Philippine Pesos.

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration² or any form of Bid Security in the amount indicated in the **BDS**, which shall be not 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 120 days from the date of the Bid Opening. 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 and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

² In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as 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 time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall 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 Entity's 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 or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each lot or item separately.

- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are 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 ABCs for all the lots or items participated in by the prospective Bidder.

- 19.4. The Project shall be awarded as follows:

- 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 ABCs for all the lots or items 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 ABCs for all the lots or items 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	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. <i>Supply, delivery, and installation of networks and peripherals.</i> b. completed within 5 years prior to the deadline for the submission and receipt of bids.
7.1	<i>Not applicable</i>
12	The price of the Goods shall be quoted DDP [<i>state place of destination</i>] or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: <ul style="list-style-type: none"> a. The amount of not less than <i>One Hundred Twenty Thousand Pesos (PhP120,000.00)</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>Three Hundred Thousand Pesos (PhP300,000.00)</i> if bid security is in Surety Bond.
19.3	<i>Not applicable</i>
20.2	<i>Latest Income Tax Return and Business Tax Return filed through the Bureau of Internal Revenue Electronic Filing and Payment System</i>
21.2	<i>Not applicable</i>

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 shall be 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 revised 2016 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 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><i>Other Conditions</i></p> <p><i>The GPPB-TSO shall not be responsible for any claim for personnel injury or damage including death caused to employees of the Supplier/Service Provider in the performance of their duties.</i></p> <p><i>The Supplier/Service Provider shall abide by all the GPPB-TSO policies and procedures on safety including the application for work permits. For security purposes, the Supplier/Service Provider's shall submit the list of names of the technical team/group on the project.</i></p> <p><i>The Supplier/Service Provider shall make all necessary conditions with the offices concerned of the GPPB-TSO as regards the delivery of the units.</i></p> <p>Delivery and Documents –</p> <p>Not applicable</p> <p>Incidental Services –</p> <p>Not applicable</p> <p>Spare Parts –</p> <p>Not applicable</p>		
	<p>Packaging –</p> <p>Not applicable</p> <p>Transportation –</p> <p>Not applicable</p> <p>Intellectual Property Rights –</p> <p>Not applicable</p>		
2.2	<p><i>The payment schedule shall be as follows, subject to existing applicable budgeting, accounting, and auditing rules, laws, and regulations:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><i>Deliverables</i></td> <td style="text-align: center;"><i>% payments of Total Value of the Contract</i></td> </tr> </table>	<i>Deliverables</i>	<i>% payments of Total Value of the Contract</i>
<i>Deliverables</i>	<i>% payments of Total Value of the Contract</i>		

	<p><i>1. Supply Delivery of Equipment and submission of Work Plan</i> <i>15%</i></p> <p><i>2. Installation, Testing, and Commission of Equipment and Issuance of Certificate of Completion</i> <i>45%</i></p> <p><i>3. Issuance of Final Acceptance</i> <i>40%</i></p>
4	<p><i>User Acceptance Test (UAT)</i></p> <p><i>The Service Provider shall perform the following activities:</i></p> <ul style="list-style-type: none"> <i>i. Best-testing of Hardware functionalities.</i> <i>ii. Design and implementation test and configurations.</i> <i>iii. Implementing final adjustments and configurations.</i> <i>iv. User and Admin Acceptance test.</i>

Section VI. Schedule of Requirements

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

Description	Quantity	Total	Delivered, Weeks/Months
Project implementation Plan including all enumerated documents required under Annex A	-	-	Within 10 working days from receipt of the Notice to Proceed
Supply, delivery, and installation of all network equipment and hardware including proper configuration and commissioning of all hardware components	-	-	95 calendar days from approval of the implementation plan
Admin and User's Training	-	-	Within 5 working days from the date of the Project Completion.
Project Documentation	-	-	Within 10 working days after the date of Admin and User's Training

***The GPPB-TSO shall be given a minimum of seven (7) working days-period to review and evaluate each report submitted by the Contractor/Supplier. The period allocated for the GPPB-TSO's review and evaluation shall be deemed not interruption or stop the running of Completion Period allocated to Contractor/Supplier**

I hereby verify to comply with all the above requirements.

Signature over the printed name of the authorized representative

Company name

Date

Section VII. Technical Specifications

Technical Specifications

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>
<p>QUALITIFICATION REQUIREMENTS:</p> <p><i>The Service Provider should mobilize key personnel as project managers and at least 3 IT experts, that must meet the following minimum qualifications:</i></p> <p><i>a. Should be an established IT company with experience in IT infrastructure and Network Configuration and undertake and completed a minimum of three (3) ICT projects in the last five (years).</i></p>	
<p><i>b. Should submit copies of client’s satisfactory certificates and/or certificates</i></p>	

<p><i>of completion and acceptance from at least three (3) clients for the last five (5) years, with similar contracts. Similar Contracts shall refer to the supply, delivery, and installation of networks and peripherals.</i></p>	
<p>SCOPE OF WORK</p> <p>The project covers the supply, delivery, and installation of all active network components for the new GPPB-TSO building. It shall include the procurement and installation of Network Switches, Data Cabinets, and Wireless Access Points from the 1st floor to the 6th floor of the new GPPB-TSO building.</p>	
<p>DELIVERY, INSTALLATION, AND CONFIGURATION OF THE GPPB-TSO NETWORK</p> <p>Shall be responsible delivery of all hardware and components for the GPPB-TSO Local Area Network (LAN)</p>	
<p>Shall be responsible for installation and configuration of hardware and components of the GPPB-TSO Network</p>	
<p>Shall be responsible commissioning of all hardware and components of the GPPB-TSO Network</p>	
<p>PROJECT IMPLEMENTATION</p> <p>The Supplier/Service Provider shall be required to submit a detailed Project Implementation Plan with S-Curve within ten (10) working days upon receipt of the Notice to Proceed, which will include all items identified in the scope of work listed in this section. This plan shall be approved by the GPPB-TSO through the Information Management Division (IMD)</p>	
<p>USER ACCEPTANCE TEST (UAT)</p> <p>Supplier/Service Provider shall perform beta-testing of hardware functionalities</p>	

Supplier/Service Provider shall perform design and implementation tests and configurations	
Supplier/Service Provider shall perform implementing final adjustments and configurations	
Supplier/Service Provider shall perform User and admin acceptance test.	
PROJECT CLOSE-OUT	
Supplier/Service Provider shall perform Administrator and User Technical Training	
Supplier/Service Provider shall perform Project Documentation	
Supplier/Service Provider shall perform Completion of the punch list	
TECHNICAL SPECIFICATION	
Project deliverables must be compatible with our existing Huawei 24 Port Layer 3 Managed Network Switch, Huawei Controller AC6508, and Huawei Access Point AirEngine5761-11 and must confirm to the following minimum technical specifications, equivalent or higher:	
Core Switch	
1. Dimension: 4U	
2. Switching Capacity: 1.92Tbps	
3. Forwarding Performance: 1440 Mbps	
4. MPU Slot: 2	
5. Service Slot: 3	
Service Card: - 2 x 48*Ethernet 10/100/1000Base-T ports - 1 x 48*SFP 100/1000Base-X ports (with SFP+ module)	

<p>6. Redundancy design: MPUs, power modules, CMU, fan trays</p>	
<p>7. Wireless Network managements</p> <ul style="list-style-type: none"> - Native AC - AP access control, AP region management, and AO profile management - Radio profile management, uniform static configuration, and centralized dynamic management -Basic WLAN services, QoS, security, and - User Management 	
<p>8. User Management:</p> <ul style="list-style-type: none"> - Unified user management - PPPoE, 802.1x, MAC address, and Portal authentication - Traffic- and time-based accounting - User authorization based on user groups, domains, and time ranges 	
<p>9. VLAN</p> <ul style="list-style-type: none"> - 4K VLANs - Access, trunk, and hybrid interface types, auto-negotiation of LNP links - Default VLAN - VLAN Switching - QinQ and selective QinQ - MAC address-based VLAN assignment 	
<p>10. ARP</p> <ul style="list-style-type: none"> -128K ARP entries - ARP Snooping 	
<p>11. MAC address</p>	

<ul style="list-style-type: none"> - 1M MAC address entries - MAC address learning and aging - Static, dynamic, and blackhole MAC address entries - Packet filtering based on source MAC address - Limit on the number of MAC address learned on ports and VLANs 	
<p>12. Ring Protection</p> <ul style="list-style-type: none"> - STP (IEEE 802.1d), RSTP (IEEE802.1w), and MSTP (IEEE802.1s) - SEP - BPDU protection, root protection, and loop protection - BPDU tunnel - ERPS (G.8032) 	
<p>13. IP Routing</p> <ul style="list-style-type: none"> - IPv4 routing protocols, such as RIPv1/v2, OSPF, BGP, and IS-IS - IPv6 dynamic routing protocols, such as RIPng, OSPFv3, ISISv6, and BGP4 - User authorization based on user groups, domains, and time ranges 	
<p>14. Multicast</p> <ul style="list-style-type: none"> - 128,000 multicast routing entries - IGMPv1/v2/v3 and IGMPv1/v2/v3 snooping 	
<p>15. QoS</p>	
<p>16. Support system logs and multi-level alarms and dying gasp.</p>	
<p>Network Switch</p>	

<ul style="list-style-type: none"> - Dimension: 1U - Switching Capacity: 336Gbps - Forwarding Performance: 51 Mbps - Port: 24*Ethernet - Port: 24*Ethernet 10/100/1000Base-T ports and 4*GE SFP+ (with complete SPF+ module) - Power: AC Power Supply - POE+ 	
<p>Wireless Access Points</p> <ul style="list-style-type: none"> - Must be compatible with Huawei Controller AC6508 - Access Point license for AP controller - Power Input: with DC power and POE power supply - Maximum Number of Users: ≤ 1024 - Antenna Type: Built-in Dynamic-Zoom Smart Antennas - MIMO: Spatial Steams: 2.4GHz: 4 x 4:4, 5GHz: 4 x 4:4 - Radio Protocols: 802.11a/b/g/n/ac/ac wave2/ax - Maximum Rate: 3.55 Gbps 	
<p>Network Switch</p> <p>Hardware Specifications:</p> <ul style="list-style-type: none"> - CPU: Launch Date (Q1'16 or Higher), Vertical Segment (server), 12-core 2.1 GHz, Threads (24), Cache (18MB), TDP (65W), Turbo Boost up to 2.7 GHz or equivalent/ higher - Memory: 16 GB DDR4 ECC RDIMM (expandable up to 128 GB) 	

<ul style="list-style-type: none"> - Compatible drive type: 12 x 3.5" or 2.5" SAS/SATA HDD/SSD - Hot swappable drive: Yes - External port: 2 x USB 3.0 port, 1 x Expansion Port - LAN: 2 x 10GbE RJ-45 (10GBASE-T), 4 x GbE RJ-45 	
<p>Software Specifications:</p> <ul style="list-style-type: none"> - Networking protocol: SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP) - File system: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT4 - Supported RAID type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 	
<p>Storage Management:</p> <ul style="list-style-type: none"> - Maximum single volume size: 108 TB/200 TB (at least 32 GB RAM required, for RAID 5 or RAID 6 groups only) - Maximum system snapshots: 65,536 - Maximum internal volume: 256 - File sharing capability <ul style="list-style-type: none"> • Maximum local user accounts: 16,000 • Maximum local groups: 512 • Maximum shared folders: 512 • Maximum concurrent SMB/NFS/AFP/FTP connections: 4,000 - Support virtualization 	
<p>Hard Drive Specifications:</p> <ul style="list-style-type: none"> - Capacity: 8TB - Form Factor: 3.5" - Interface: SATA 6Gb/s - Sector Size: 512e 	

<ul style="list-style-type: none"> - Rotational Speed: 7,200 rpm - Interface Speed: 6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s - Buffer Size: 256 MiB - Maximum Sustained Data Transfer Speed: 248 MiB/s - Warranty: 5 years 	
<p>UPS</p> <ul style="list-style-type: none"> - Capacity: 8TB - Rating (VA/W): 2200VA / 2200W - Format: 2RU - Battery: Hot-swappable - Sockets: 8 IEC 10A; 2 IEC 16A sockets with energy metering (including 5 remote controlled sockets) - Interfaces: 1 USB port; 1 serial RS232 port; 1 mini-terminal block for Remote ON/OFF; 1 mini-terminal block for Remote Power OFF; 1 miniterminal block for output relay; 1 Ethernet port (RJ45) 	
<p>Compliance with the Terms of Reference attached herein as Annex A</p>	

I hereby verify to comply with all the above requirements.

Signature over the printed name of the authorized representative

Company name

Date

***Section VIII. 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 **supported with the End-User's acceptance or official receipt and sales invoice issued for the contract; 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) **supported with** Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative. In case of partnership or single proprietorship. The bidder shall submit Original Special Power of Attorney executed by the partners or single proprietor, whichever is applicable.

In case of Joint Venture, Original Special Power of Attorney shall be submitted by all members of the joint venture giving full power and authority to its officers 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\(s\)](#).

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.



TERMS OF REFERENCE**SUPPLY, DELIVERY AND INSTALLATION FOR GPPB-TSO LOCAL AREA NETWORK (LAN) PROJECT****1.0 INTRODUCTION**

The Government Procurement Policy Board (GPPB) was established by virtue of Republic Act No. 9184 (R.A. 9184) as an independent inter-agency body that is impartial, transparent, and effective, with private sector representation.

The GPPB, being an inter-agency body composed of top-level public officials, is supported by its very own Technical Support Office (TSO) to provide support in the performance of its duties and responsibilities, particularly in spearheading the implementation of public procurement reform initiatives in the Philippines (Sec. 63.2, Implementing Rules and Regulations of Republic Act 9184).

With the construction of its own building, the GPPB-TSO aims to continually improve the quality and efficiency of the services to its various stakeholders. It will strengthen internal processes that support GPPB-TSO's mandate and improve the performance efficiency of each functional area. Specifically, it will establish a fast, redundant, and reliable network infrastructure. It will set up an innovative active network component and create a more effective and efficient Information and Communication Technology (ICT) infrastructure.

2.0 OBJECTIVE

This project aims to:

- 2.1. Establish a reliable and secured network infrastructure system that will allow smooth data transfer and communication between computers, users, and servers, better manage data traffic, reduce network congestion, protect hardware and software from data breach and cyber-attack.
- 2.2. Ensure fast, efficient, and secure sharing, accessing, and receiving of information through electronic means between and among offices and division within GPPB-TSO which will increase productivity and drives performance.

3.0 SCOPE OF WORK

The project covers the supply, delivery, and installation of all active network components for the new GPPB-TSO building. It shall include the procurement and installation of Network Switches, Data Cabinets, and Wireless Access Points from the 1st floor to the 6th floor of the new GPPB-TSO building.

3.1 DELIVERY, INSTALLATION, AND CONFIGURATION OF THE GPPB-TSO NETWORK

The Supplier/Service Provider shall be responsible for the following:

- 3.1.1. Delivery of all hardware and components for the GPPB-TSO Local Area Network (LAN).

- 3.1.2. Installation and configuration of hardware and components of the GPPB-TSO Network.
- 3.1.3. Commissioning of all hardware and components of the GPPB-TSO Network.

3.2 PROJECT IMPLEMENTATION

- 3.2.1 The Supplier/Service Provider shall be required to submit a detailed Project Implementation Plan with S-Curve within ten (10) working days upon receipt of the Notice to Proceed, which will include all items identified in the scope of work listed in this section. This plan shall be approved by the GPPB-TSO through the Information Management Division (IMD).

3.3 USER ACCEPTANCE TEST (UAT)

The Supplier/Service Provider shall perform the following activities per module:

- 3.3.1. Beta-testing of hardware functionalities
- 3.3.2. Design and implementation tests and configurations
- 3.3.3. Implementing final adjustments and configurations
- 3.3.4. User and admin acceptance test.

3.4 PROJECT CLOSE-OUT

The Supplier/Service Provider shall perform the following project close-out activities to ensure the complete transfer of assets to the GPPB-TSO:

- 3.4.1 Onsite Administrator and User Technical Training
- 3.4.2 Project Documentation
- 3.4.3 Completion of the punch list within 15 calendar days from the date of inspection

4.0. TECHNICAL SPECIFICATION

Project deliverables must be compatible with our existing Huawei 24 Port Layer 3 Managed Network Switch, Huawei Controller AC6508, and Huawei Access Point AirEngine5761-11 and must conform to the following minimum technical specifications, equivalent or higher:

4.1. Core Switch

- 1. Dimension: 4U
- 2. Switching Capacity: 1.92Tbps
- 3. Forwarding Performance: 1440 Mpps
- 4. MPU Slot: 2
- 5. Service Slot: 3
 - Service card:

- 2 x 48*Ethernet 10/100/1000Base-T ports
 - 1 x 48*SFP 100/1000Base-X ports (with SFP+ module)
6. Redundancy design: MPUs, power modules, CMU, fan trays
 7. Wireless network management:
 - Native AC
 - AP access control, AP region management, and AP profile management
 - Radio profile management, uniform static configuration, and centralized dynamic management
 - Basic WLAN services, QoS, security, and user management
 8. User Management:
 - Unified user management
 - PPPoE, 802.1x, MAC address, and Portal authentication
 - Traffic- and time-based accounting
 - User authorization based on user groups, domains, and time ranges
 9. VLAN
 - 4K VLANs
 - Access, trunk, and hybrid interface types, auto-negotiation of LNP links
 - Default VLAN
 - VLAN Switching
 - QinQ and selective QinQ
 - MAC address-based VLAN assignment
 10. ARP
 - 128K ARP entries
 - ARP Snooping
 11. MAC address
 - 1M MAC address entries
 - MAC address learning and aging
 - Static, dynamic, and blackhole MAC address entries
 - Packet filtering based on source MAC address
 - Limit on the number of MAC addresses learned on ports and VLANs
 12. Ring Protection
 - STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
 - SEP
 - BPDU protection, root protection, and loop protection
 - BPDU tunnel
 - ERPS(G.8032)
 13. IP Routing

- IPv4 routing protocols, such as RIPv1/v2, OSPF, BGP, and IS-IS
 - IPv6 dynamic routing protocols, such as RIPv6, OSPFv3, ISISv6, and BGP4
 - User authorization based on user groups, domains, and time ranges
14. Multicast
 - 128,000 multicast routing entries
 - IGMPv1/v2/v3 and IGMP v1/v2/v3 snooping
 15. QoS
 16. Support system logs and multi-level alarms and dying gasp.

4.2. Network Switch

1. Dimension: 1U
2. Switching Capacity: 336 Gbps
3. Forwarding Performance: 51 Mpps
4. Port: 24*Ethernet 10/100/1000Base-T ports and 4*GE SFP+ (with complete SPF+ module)
5. Power: AC Power Supply

4.3. Network Switch (POE)

1. Dimension: 1U
2. Switching Capacity: 336 Gbps
3. Forwarding Performance: 51 Mpps
4. Port: 24*Ethernet 10/100/1000Base-T ports and 4*GE SFP+ (with complete SPF+ module)
5. Power: AC Power Supply
6. POE+

4.4. Wireless Access Points

1. Must be compatible with Huawei Controller AC6508
2. Access Point license for AP controller
3. Power Input: with DC power and POE power supply
4. Maximum Number of Users: ≤ 1024
5. Antenna Type: Built-in Dynamic-Zoom Smart Antennas
6. MIMO: Spatial Streams: 2.4GHz: 4 x 4:4, 5GHz: 4 x 4:4
7. Radio Protocols: 802.11a/b/g/n/ac/ac wave2/ax
8. Maximum Rate: 3.55 Gbps

4.5. Network Attached Storage

1. Hardware Specifications
 - CPU: Launch Date (Q1'16 or Higher), Vertical Segment (server), 12-core 2.1 GHz, Threads (24), Cache (18MB), TDP (65W), Turbo Boost up to 2.7 GHz or equivalent/ higher
 - Memory: 16 GB DDR4 ECC RDIMM (expandable up to 128 GB)

- Compatible drive type: 12 x 3.5" or 2.5" SAS/SATA HDD/SSD
 - Hot swappable drive: Yes
 - External port: 2 x USB 3.0 port, 1 x Expansion Port
 - LAN: 2 x 10GbE RJ-45 (10GBASE-T), 4 x GbE RJ-45
2. Software Specifications
- Networking protocol: SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP)
 - File system: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT4
 - Supported RAID type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
 - Storage management:
 - Maximum single volume size: 108 TB/200 TB (at least 32 GB RAM required, for RAID 5 or RAID 6 groups only)
 - Maximum system snapshots: 65,5365
 - Maximum internal volume: 256
 - File sharing capability
 - Maximum local user accounts: 16,000
 - Maximum local groups: 512
 - Maximum shared folders: 512
 - Maximum concurrent SMB/NFS/AFP/FTP connections: 4,000
 - Support virtualization
3. Hard Drive Specifications
- Capacity: 8TB
 - Form Factor: 3.5"
 - Interface: SATA 6 Gb/s
 - Sector Size: 512e
 - Rotational Speed: 7,200 rpm
 - Interface Speed: 6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s
 - Buffer Size: 256 MiB
 - Maximum Sustained Data Transfer Speed: 248 MiB/s
 - Warranty: 5 years

4.6. UPS

1. Rating (VA/W): 2200VA / 2200W
2. Format: 2RU
3. Battery: Hot-swappable
4. Sockets: 8 IEC 10A; 2 IEC 16A sockets with energy metering (including 5 remote controlled sockets)
5. Interfaces: 1 USB port; 1 serial RS232 port; 1 mini-terminal block for Remote ON/OFF; 1 mini-terminal block for Remote Power OFF; 1 mini-terminal block for output relay; 1 Ethernet port (RJ45)

5.0. DELIVERABLES

The following are the deliverables for this project:

5.1. Network and Cabling Works

1. Installation of the Active Network Components
2. Installation of cable guide from ceiling to server cabinets
3. Termination and testing of cable and connectors
4. Proper end-to-end tagging/labeling of cables and connectors for easier referencing and identification
5. Restoration and cleaning of all affected areas
6. Provide cable trays or ladder racks for the installation of fiber optic cables from the ceiling of the electrical room to server cabinets.
7. And other necessary works and materials for the successful implementation of the project.

5.2. Project Implementation Plan

This shall be submitted to GPPB-TSO for approval within ten (10) working days from receipt of the NTP. This submission should include detailed project activities with corresponding target duration, start and end dates, and other resource requirements, among others. The Project Implementation Plan shall also include, among others, the following:

1. System Configuration and Installation Plan with S-Curve
2. Network Test Plan
3. System Acceptance Plan
4. Submission of Architecture and Framework GPPB-TSO Network
5. List of the Supplier/Service Provider's personnel and their respective assignments to the project.
6. Other requirements that may be required by the GPPB-TSO.

5.3. Project Documentation

1. Technical Specifications and/or Data Sheets of all devices.
2. Preventive Maintenance and Operational Manual of all devices.
3. Network Floor Plan Lay-Out duly signed and sealed by a Professional Electronics Engineer (PECE).
4. Acceptance Testing Report on GPPB-TSO Network
5. And other documents that may be required by the GPPB-TSO for proper documentation of the Project.

5.4. After-project Enterprise Support and Warranty

1. The required warranty for all active network equipment and peripherals shall be one (1) year from the date of acceptance of the project.

2. The Supplier/Service Provider Technical Support shall be available for technical support and/or inquiries, through email or telephone/mobile call and on-site, for a period of at least one (1) year after the acceptance of the project.
 1. Troubleshooting
 2. Other necessary support services
3. Conduct annual preventive maintenance during the warranty period for all the components of the solution.
4. Contractor shall be responsible for all the costs related to the warranty period for hardware products.
5. Delivered devices and its components or parts shall be made available for at least five (5) years upon delivery.

5.5. Bill of Quantities

Item	Description	Quantity	Unit
Ground Floor			
1	UTP Cat6 patch cord 2 meters	48	pcs
2	24 port Cat6 Patch Panel loaded with label	2	pcs
3	Horizontal cable manager 1ru	2	pcs
4	24 port Network Switch	1	unit
5	24 port Network Switch (POE)	1	unit
6	10GB SFP+ module duplex MM	2	pcs
7	IDF 2.5FT data cabinet rack wall mounted (with power outlet)	1	unit
8	Wireless Access Point	6	units
9	Fiber Patch Panel 12 port SC loaded MM	1	unit
10	Fiber Patch Cord 1 meter OM3 SC-LC duplex MM	4	pcs
Second Floor			
11	UTP Cat6 patch cord 2 meters	96	pcs
12	24 port Cat6 Patch Panel loaded with label	4	pcs
13	Horizontal cable manager 1ru	4	pcs
14	24 port Network Switch	1	unit
15	24 port Network Switch (POE)	3	units
16	10GB SFP+ module duplex MM	4	pcs
17	IDF 2.5FT data cabinet rack wall mounted (with power outlet)	1	unit
18	Wireless Access Point	9	units
19	Fiber Patch Panel 12 port SC loaded MM	1	unit
20	Fiber Patch Cord 1 meter OM3 SC-LC duplex MM	8	pcs
Third Floor			
21	UTP Cat6 patch cord 2 meters	168	pcs

22	24 port Cat6 Patch Panel loaded with label	7	pcs
23	Horizontal cable manager 1ru	7	pcs
24	Core Switch	1	unit
25	10GB SFP+ module duplex MM	25	pcs
26	24 port Network Switch	2	units
27	24 port Network Switch (POE)	1	unit
28	10GB SFP+ module duplex MM	3	pcs
29	IDF 7FT data cabinet rack free standing (with fixed tray and power outlet)	1	unit
30	Wireless Access Point	7	units
31	Fiber Patch Panel 48 port SC loaded MM	1	unit
32	Fiber Patch Cord 1 meter OM3 SC-LC duplex MM	60	pcs
33	Fiber Cable 8 Core MM Data Backbone	500	mtrs
34	Network Attached Storage (with 12 pcs. Hard Disk Drive)	1	unit
35	2KVA UPS	1	unit
Fourth Floor			
36	UTP Cat6 patch cord 2 meters	48	pcs
37	24 port Cat6 Patch Panel loaded with label	2	pcs
38	Horizontal cable manager 1ru	2	pcs
39	24 port Network Switch	1	unit
40	24 port Network Switch (POE)	1	units
41	10GB SFP+ module duplex MM	2	pcs
42	IDF 2.5FT data cabinet rack wall mounted (with power outlet)	1	unit
43	Wireless Access Point	6	units
44	Fiber Patch Panel 12 port SC loaded MM	1	unit
45	Fiber Patch Cord 1 meter OM3 SC-LC duplex MM	4	pcs
Fifth Floor			
46	UTP Cat6 patch cord 2 meters	48	pcs
47	24 port Cat6 Patch Panel loaded with label	2	pcs
48	Horizontal cable manager 1ru	2	pcs
49	24 port Network Switch	1	unit
50	24 port Network Switch (POE)	1	units
51	10GB SFP+ module duplex MM	2	pcs
52	IDF 2.5FT data cabinet rack wall mounted (with power outlet)	1	unit
53	Wireless Access Point	7	units
54	Fiber Patch Panel 12 port SC loaded MM	1	unit
55	Fiber Patch Cord 1 meter OM3 SC-LC duplex MM	4	pcs
Sixth Floor			
56	UTP Cat6 patch cord 2 meters	48	pcs
57	24 port Cat6 Patch Panel loaded with label	2	pcs
58	Horizontal cable manager 1ru	2	pcs
59	24 port Network Switch	1	unit
60	24 port Network Switch (POE)	1	units

61	10GB SFP+ module duplex MM	2	pcs
62	IDF 2.5FT data cabinet rack wall mounted (with power outlet)	1	unit
63	Wireless Access Point	8	units
64	Fiber Patch Panel 12 port SC loaded MM	1	unit
65	Fiber Patch Cord 1 meter OM3 SC-LC duplex MM	4	pcs

Item	Description	Quantity	Unit
	Installation Service, Equipment and Accessories		
1	Labor and Tools including Network Configuration, as-built plans and materials	1	lot

6.0 SELECTION CRITERIA

Qualification Requirements. The Service Provider should be an established IT company with experience in IT Infrastructure and Network Configuration with at least 5 years of experience similar to the project to be bid. They should mobilize key personnel as project managers and at least 3 IT experts, that must meet the following minimum qualifications:

Qualification	Minimum Requirements
Professional Experience (Company)	<ul style="list-style-type: none"> Should be an established IT company with experience in IT Infrastructure and Network Configuration and undertaken and completed a minimum of three (3) ICT projects in the last five (years). Should submit copies of client's satisfactory certificates and/or certificates of completion and acceptance from at least three (3) clients for the last five (5) years, with similar contracts. Similar contracts refer to the supply, delivery, and installation of networks and peripherals.

7.0 DURATION OF ENGAGEMENT

The table below presents the target delivery schedule of identified project deliverables for a contract period of four (4) months.

Item No.	Deliverable	Target Schedule	Delivery
1	Project Implementation Plan including all enumerated documents required under Item 5.2	Within 10 working days from receipt of the Notice to Proceed	
2	Supply, delivery, and installation of all network equipment and hardware including proper configuration and commissioning of all hardware and components	95 calendar days from approval of the implementation plan	
3	Admin and User's Training	Within 5 working days from the date of Project Completion	
4	Project Documentation	Within 10 working days after the date of Admin and User's Training	

The GPPB-TSO shall be given a minimum seven (7) working days-period to review and evaluate each report submitted by the Contractor/Supplier. The period allocated for the GPPB-TSO's review and evaluation shall be deemed not to interrupt or stop the running of Completion Period allocated Contractor/Supplier.

8.0 APPROVED BUDGET FOR THE CONTRACT

The approved budget for this Contract is Six Million Pesos only (PhpP6,000,000.00), inclusive of all applicable tax.

9.0 PAYMENT SCHEME/SCHEDULE

The payment schedule shall be as follows, subject to existing applicable budgeting, accounting, and auditing rules, laws, and regulations:

Item No.	Deliverables	% Payments of Total Value of the Contract
1	Supply and Delivery of Equipment and submission of Work Plan	15%
2	Installation, Testing, and Commission of Equipment and Issuance of Certificate of Completion	45%
3	Issuance of Final Acceptance	40%
TOTAL		100%

10.0 RESPONSIBILITIES OF GPPB-TSO

- 10.1 The GPPB-TSO shall be responsible for the procurement of hardware components and the required services to install commission;
- 10.2 It shall organize a counterpart GPPB-TSO Experts Team composed of subject matter experts and IT Staff, among others, and appoint a Project Leader (internal employee), duly authorized by the GPPB-TSO, who shall be responsible for the overall supervision of the Project and assist the Supplier/Service Provider in the successful implementation of the Project;
- 10.3 Provide pertinent data and other technical information necessary in the Supplier/Service Provider's performance of the service;
- 10.4 Provide a suitable work area to be used by the Supplier/Service Provider during the period of engagement;
- 10.5 The GPPB-TSO shall designate at least two (2) system administrators fully knowledgeable and competent in their functional areas;
- 10.6 The GPPB-TSO shall pay the Supplier/Service Provider in accordance with the payment scheme/schedule as specified in Item XI of this TOR; and
- 10.7 It shall allow the Supplier/Service Provider and its workers to access the facilities and other areas covered by the scope of work and ensure works and staff are compliant to Health Safety Standards.

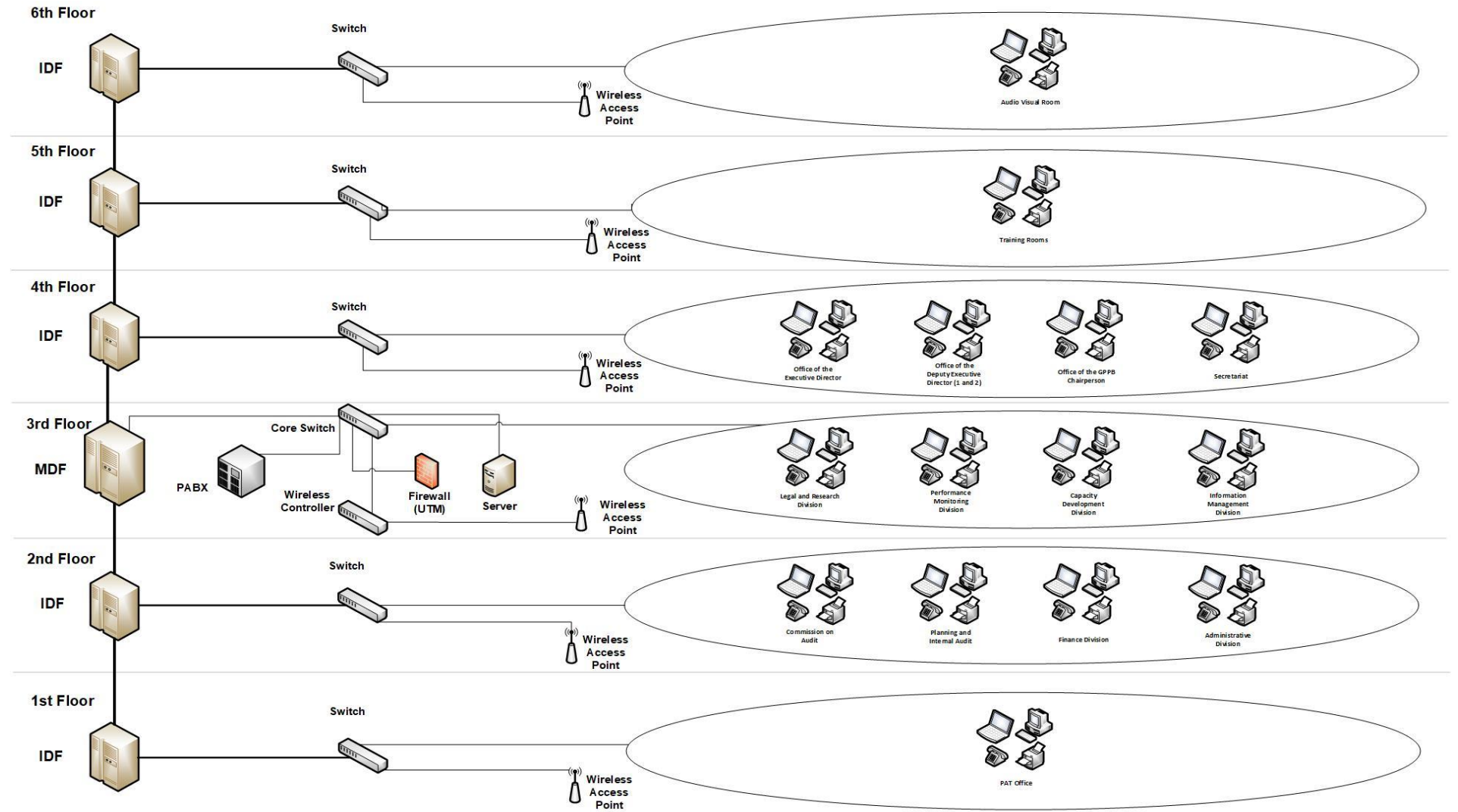
11.0 OTHER CONDITION

- 11.1 The GPPB-TSO shall not be responsible for any claim for personnel injury or damage including death caused to employees of the Supplier/Service Provider in the performance of their duties.
- 11.2 The Supplier/Service Provider shall abide by all the GPPB-TSO policies and procedures on safety including the application for work permits. For security purposes, the Supplier/Service Provider's shall submit the list of names of the technical team/group assigned on the project.

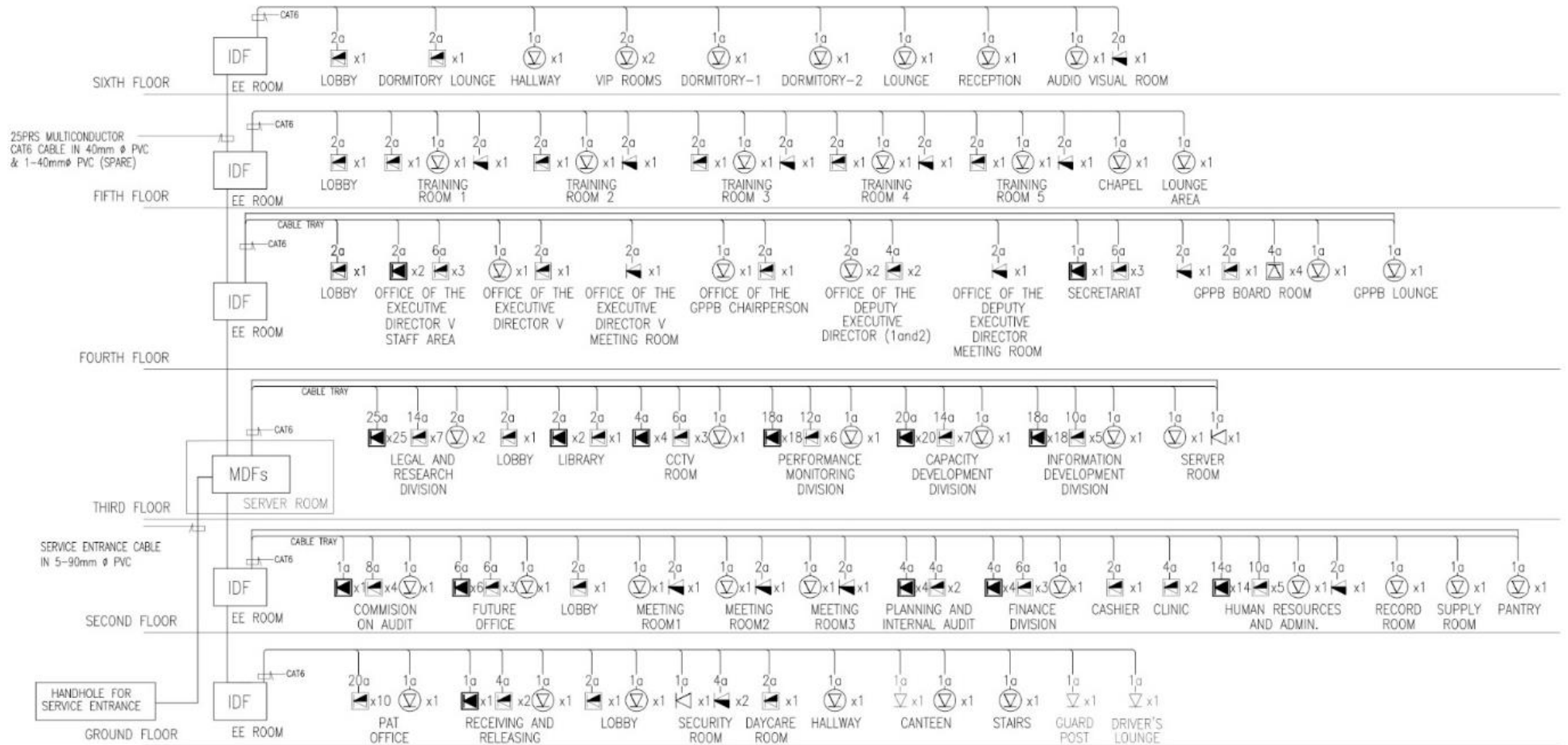
The Supplier/Service Provider shall make all necessary condition with the offices concerned of the GPPB-TSO as regards the delivery of the units.

Network Infrastructure










NETWORK INFRASTRUCTURE



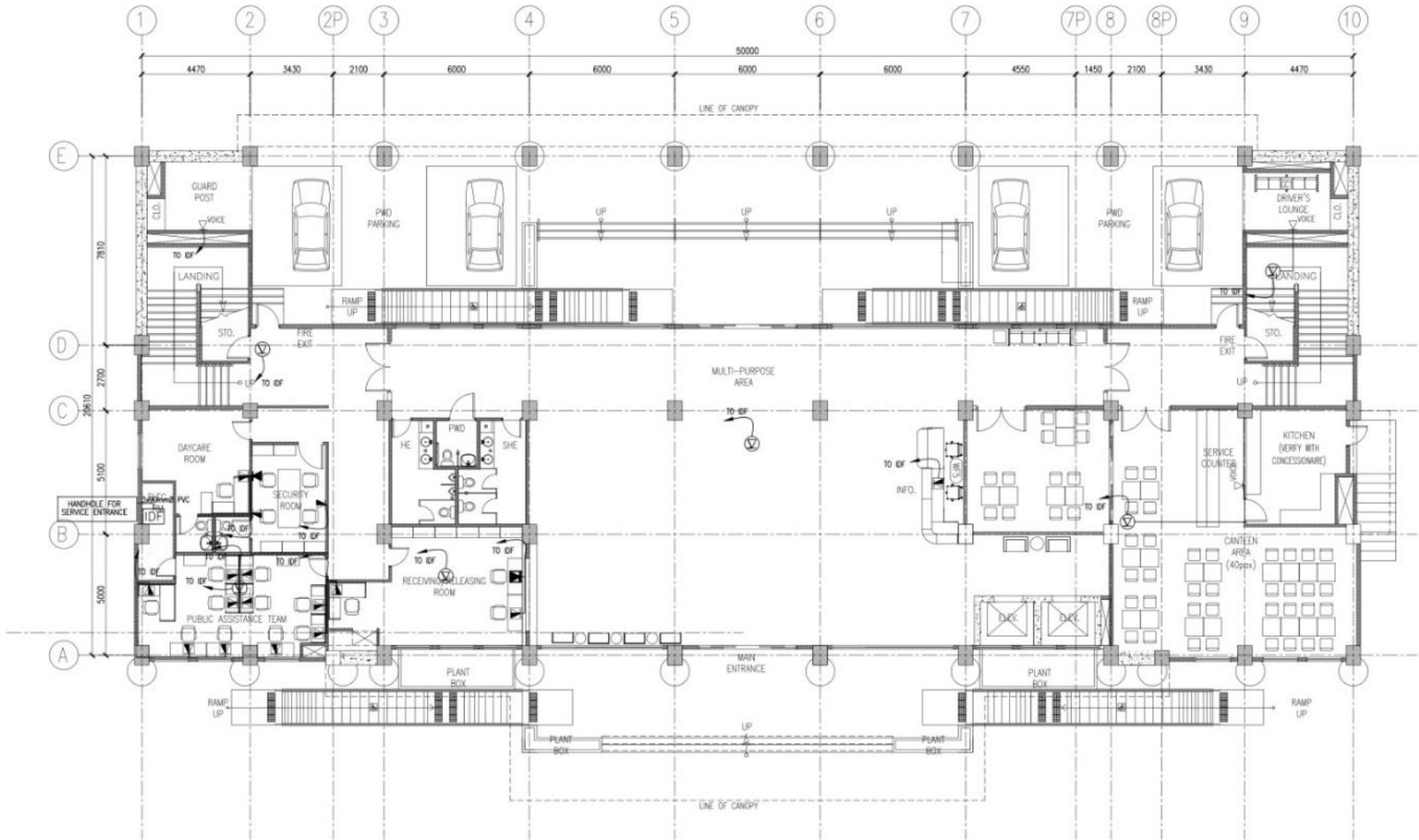
Floor Plan NETWORK CABLING RISER DIAGRAM



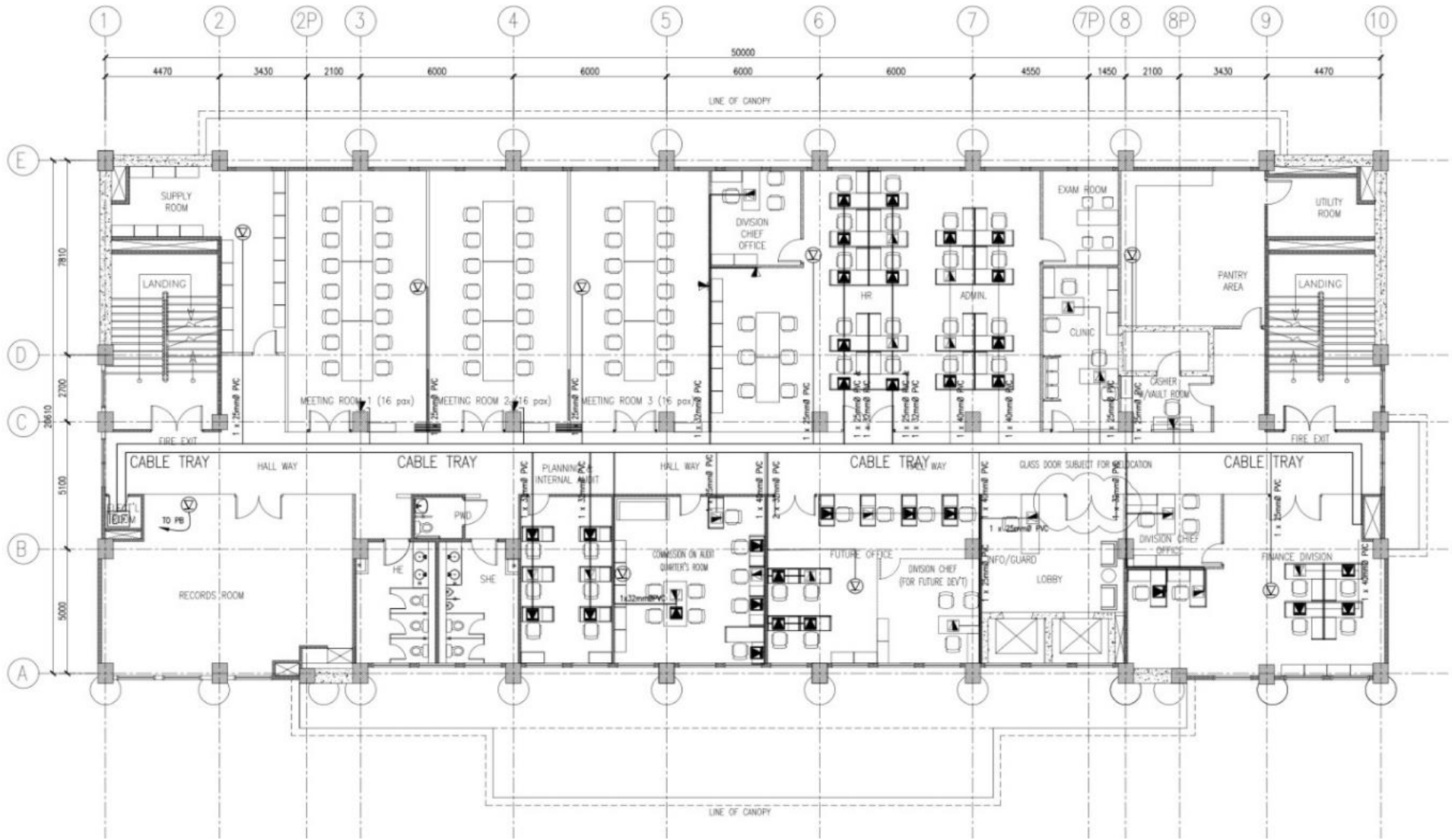
LEGEND

LEGENDS	DESCRIPTION
	UNIVERSAL INFORMATION OUTLET, DUAL PORT (VOICE & DATA) FLOOR MOUNTED
	UNIVERSAL INFORMATION OUTLET SINGLE PORT FLOOR MOUNTED (VOICE)
	UNIVERSAL INFORMATION OUTLET SINGLE PORT FLOOR MOUNTED (DATA)
	WIRELESS ACCESS POINT (WAP) CEILING MOUNTED
	UNIVERSAL INFORMATION OUTLET, DUAL PORT (VOICE & DATA) WALL MOUNTED
	UNIVERSAL INFORMATION OUTLET, SINGLE PORT (VOICE) WALL MOUNTED
	UNIVERSAL INFORMATION OUTLET, SINGLE PORT (DATA) WALL MOUNTED
	INTERMEDIATE DISTRIBUTION FRAME
	MAIN DISTRIBUTION FRAME

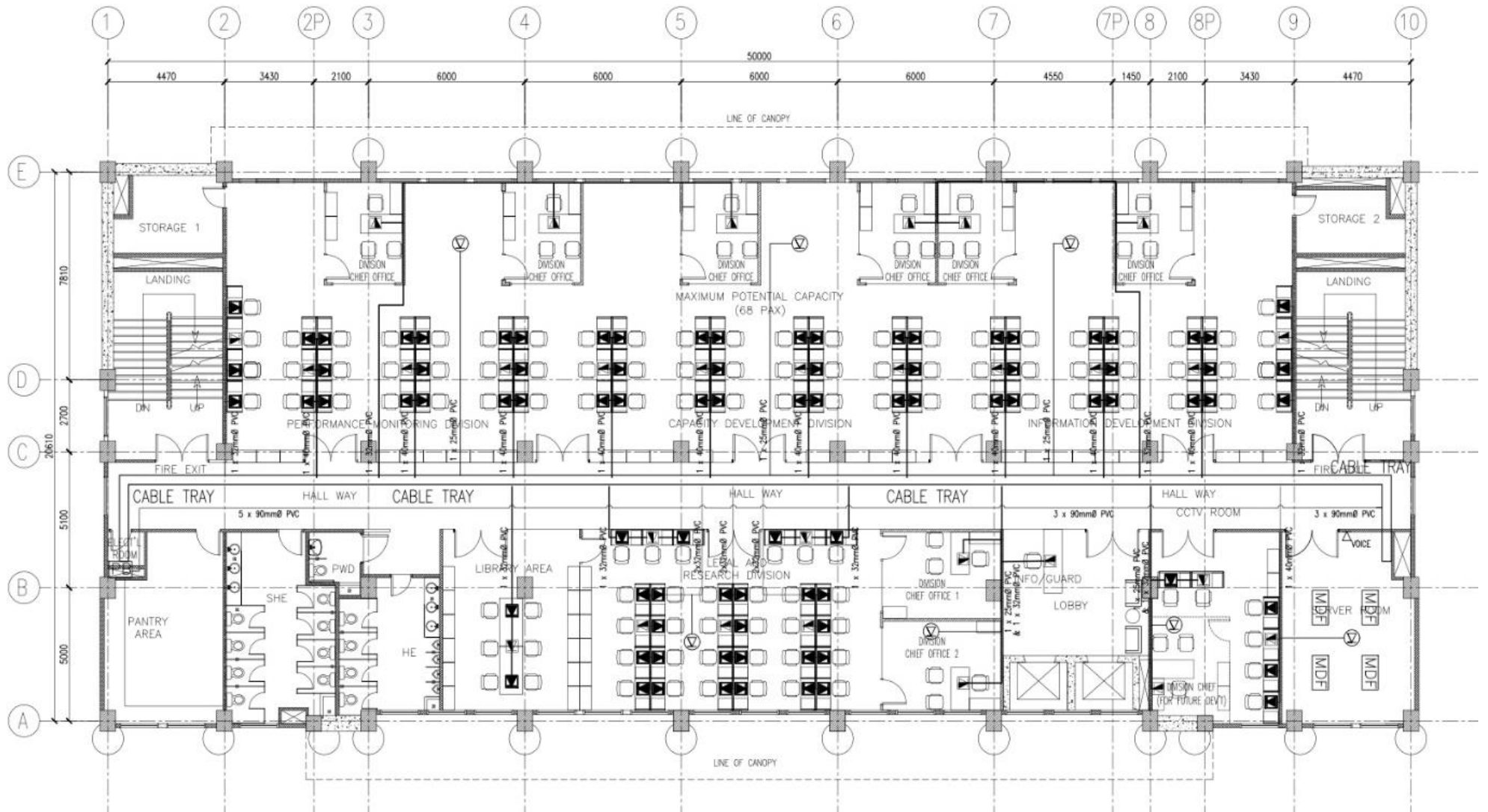
GROUND FLOOR PLAN



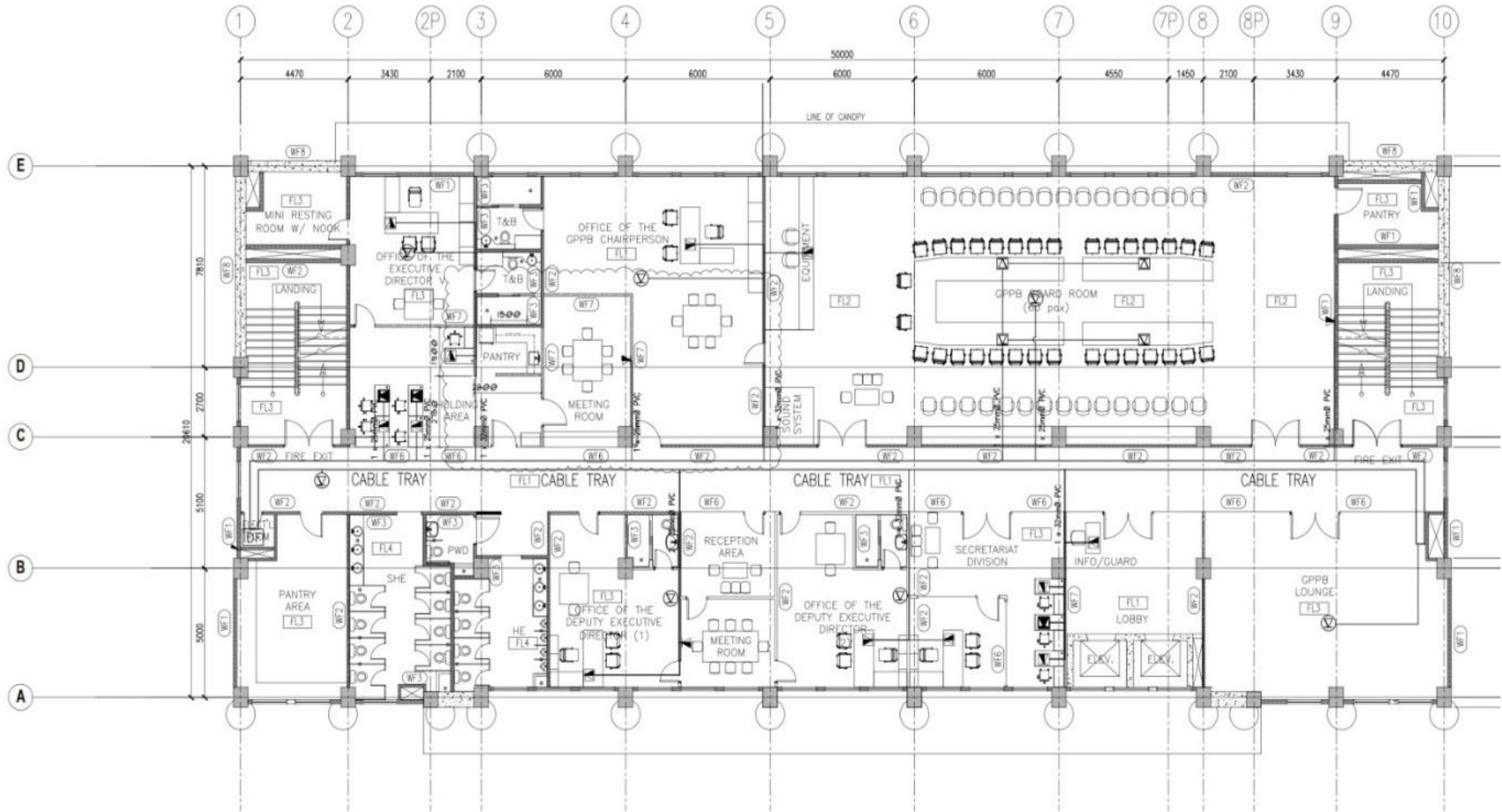
SECOND FLOOR PLAN



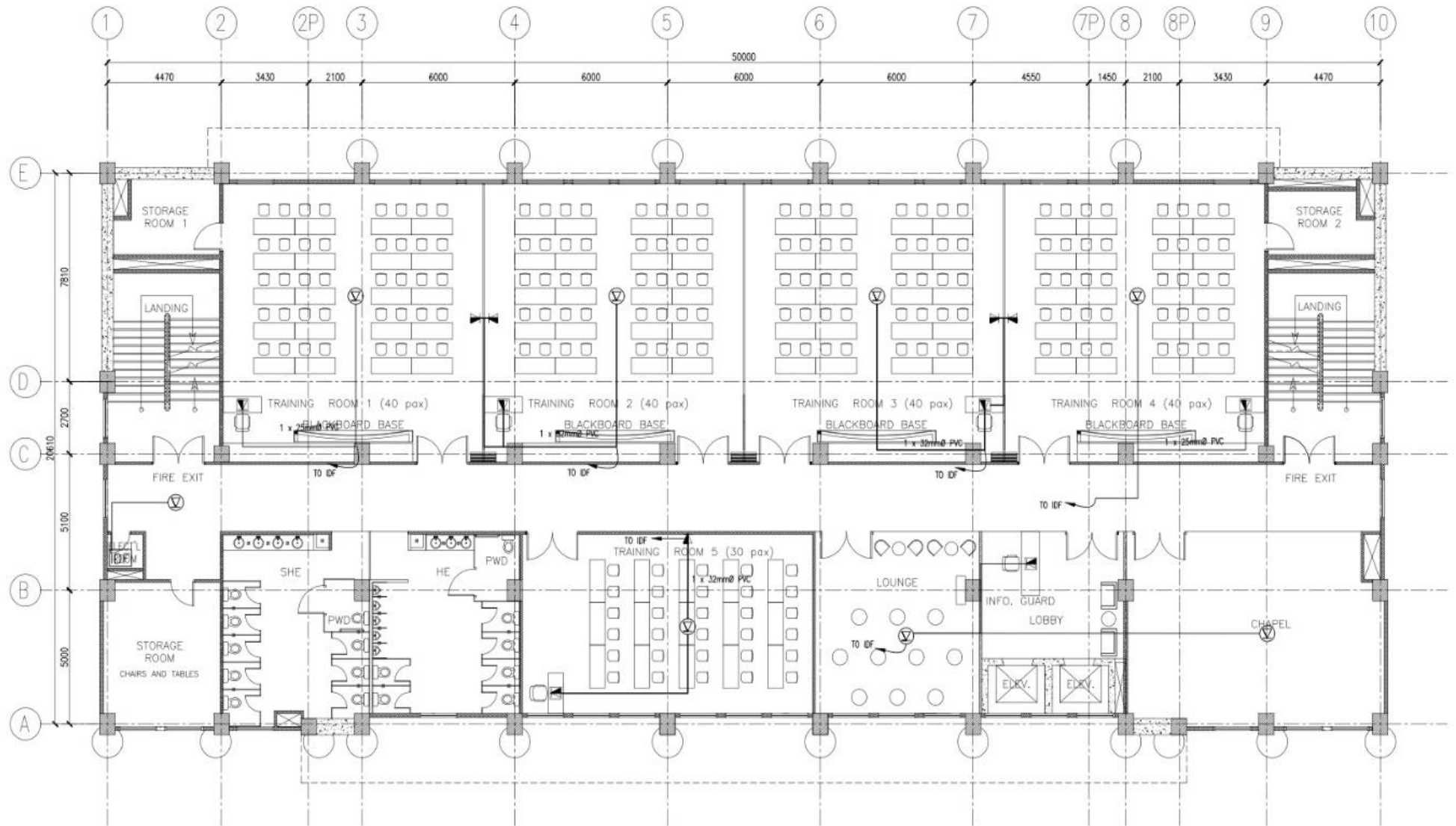
THIRD FLOOR PLAN



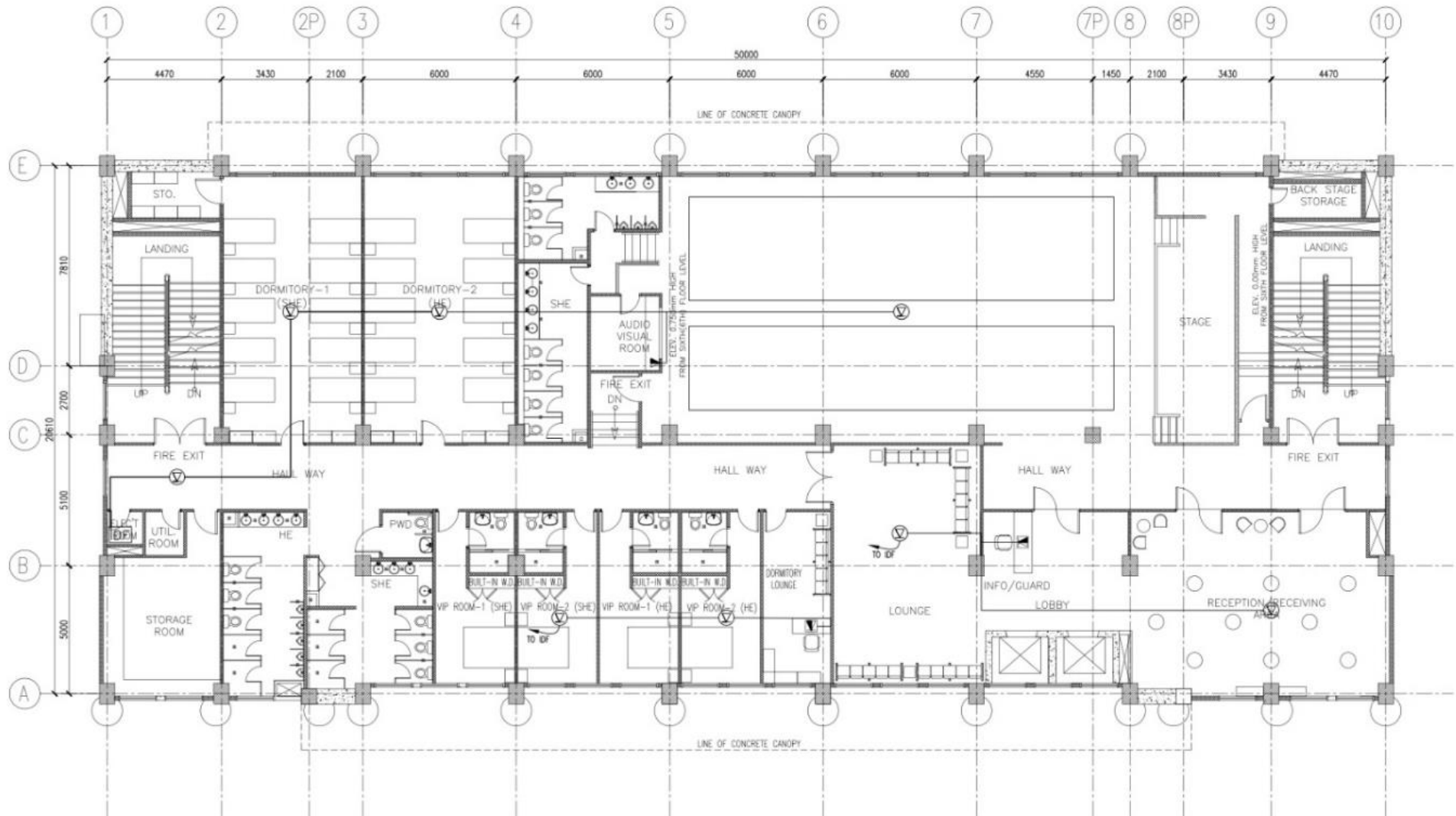
FOURTH FLOOR PLAN



FIFTH FLOOR PLAN



SIXTH FLOOR PLAN



---NOTHING FOLLOWS---