Republic of the Philippines
TARLAC STATE UNIVERSITY
Romulo Boulevard San Vicente Tarlac City 2300
Tel. No. (045) 606-8157/606-8162 Website: www.tsu.edu.ph

REQUEST FOR QUOTATION

RFQ No. 014-2026

Date: January 08, 2026

The **TARLAC STATE UNIVERSITY (TSU)**, through its Bids and Awards Committee (BAC), intends to procure **Labor and Materials for Conversion of TSU Hotel Rooms 416 and 418 into College of Medicine Temporary Laboratory Rooms** with an Approved Budget for the Contract of **One Million Nine Hundred Ninety-Nine Thousand Five Hundred Forty-One Pesos and 09/100 (PhP1,999,541.09)** through **Small Value Procurement** pursuant to Section 34 of the Implementing Rules and Regulations of Republic Act No. 12009.

Please submit your duly signed quotation addressed to the Bids and Awards Committee (BAC) Chairperson and to the given address below, on or before **1:00PM of 21 January 2026**, subject to compliance with the Terms and Conditions provided on this Request for Quotation (RFQ):

WILMARK J. RAMOS
Chairperson, Bids and Awards Committee-Goods and Services
Tarlac State University
Romulo Boulevard, San Vicente Tarlac City
Telephone No. (045) 606-8157
Email: tsucanvassing@gmail.com

Interested supplier/service provider shall also submit a copy of the following documents along with the quotation on or before the above specified deadline for submission of quotation:

Required Documents:

- ☑ Valid Business/Mayor's Permit
- ☑ PhilGEPS Registration Number
- ☑ Tax Clearance (per RR017-2024 EO398 Series 2005, Updated Tax Clearance
- ☑ Notarized Omnibus Sworn Statement, if applicable
- ☑ Latest Income/Business Tax Return, if applicable
- ☑ Others, PCAB License

The Head of the Procuring Entity (HoPE) of the TSU reserves the right to reject any and all quotations, declare a failure of procurement, or not award the contract in accordance with Section 70 of the IRR of RA No. 12009.

For any clarification, you may contact the BAC Secretariat at (045) 606-8157/606-8162 or send email to tsucanvassing@gmail.com.

By the Authority of the Bids and Awards Committee:

MENCHIE D. ABELLAR
Head, BAC Secretariat/Procurement Unit

INSTRUCTIONS:

Note: Failure to follow these instructions will disqualify your entire quotation.

1. Do not alter the contents of this form in any way.
2. The use of this RFQ is highly encouraged to minimize errors or omissions of the required mandatory provisions.
3. The quotation shall contain all the mandatory requirements/provisions including manifestation of the agreement with the Terms and Conditions below.
4. In case a prospective supplier/service provider submits a filled-out RFQ with a supporting document (i.e., a price quotation in a different format), both documents shall be considered unless there will be discrepancies. In this case, provisions in the RFQ shall prevail.
5. **All technical specifications must be complied with.** Failure to comply with the mandatory requirements shall render the quotation ineligible/disqualified.
6. Quotations may be submitted through electronic mail at tsucanvassing@gmail.com.
7. Quotations, including documentary requirements, received after the deadline shall not be accepted. For quotations submitted via electronic mail, the date and time of receipt indicated in the e-mail shall be considered.

TERMS AND CONDITIONS:

1. Bidders shall provide correct and accurate information required in this form.
2. The following shall be observed in accomplishing the Quotation/Proposal Form:

Minimum Technical Specifications	Quantity	Offered Technical Specification/Service (1)	Statement of Compliance (Comply or Not Comply) (2)
			YES or NO

1. *State the Brand/Model offered and/or alternate offer if answered "NO" in the Statement of Compliance;*
2. *Check if compliant with the specifications or not.*

3. Detailed literature or brochure of the offer, as may be applicable, shall be submitted to support statement of compliance of the technical specifications
4. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by you or any of your duly authorized representative/s.
5. Price quotation/s must be valid for a period of **FORTY-FIVE (45) calendar days** from the deadline of submission.
6. Price quotation/s, to be denominated in Philippine peso, shall include all taxes, duties, and/or levies payable.
7. Quotations exceeding the Approved Budget for the Contract shall be rejected.
8. In case of two or more bidders are determined to have submitted the Lowest Calculated Quotation/Lowest Calculated and Responsive Quotation, the TSU shall adopt and employ "draw lots" as the tie- breaking method to finally determine the single winning provider.
9. Award of contract shall be made to the lowest quotation which complies with the technical specifications, requirements and other terms and conditions stated herein.
10. The item/s shall be delivered according to the accepted offer of the bidder.
11. Item/s delivered shall be inspected on the scheduled date and time of the TSU. The delivery of the item/s shall be acknowledged upon the delivery to confirm compliance with the technical specifications.
12. Payment shall be made after delivery and upon the submission of the required supporting documents.
13. Liquidated damages equivalent to one-tenth of one percent (0.1%) of the value of the goods not delivered within the prescribed delivery period shall be imposed per day of delay. TSU may terminate the contract once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, without prejudice to other courses of action and remedies open to it.
14. The Procuring Entity may cancel or terminate the contract at any time in accordance with the grounds provided under RA No. 12009 and its Implementing Rules and Regulations.
15. The RFQ, Purchase Order (PO), and other related documents for the above-stated procurement projects shall be deemed to form part of the contract.

Date: _____

The Bids and Awards Committee
Tarlac State University
San Vicente, Tarlac City

Dear Sir/Madam:

After having carefully read and accepted the Instructions and Terms and Conditions, I/we submit our quotation/s for the item/s as follows:

	Minimum Technical Specifications	Quantity	Offered Technical Specifications	Statement of Compliance (Comply or Not Comply)
Note: Non-compliance with the minimum required specifications shall be grounds for disqualification				
Labor and Materials for Conversion of TSU Hotel Rooms 416 and 418 into College of Medicine Temporary Laboratory Rooms				
1	**Conversion of TSU Hotel Rooms 416 and 418 into College of Medicine Temporary Laboratory Rooms** **TECHNICAL SPECIFICATIONS** **SECTION 1 – GENERAL CONDITIONS AND REQUIREMENTS** 1.1. SCOPE OF WORK 1.1.1. The project shall cover the completion of the **CONVERSION OF TSU HOTEL ROOMS 416 & 418 INTO COLLEGE OF MEDICINE TEMPORARY LABORATORY ROOMS**, which shall include the supervision and furnishing of labor, supplies, materials, equipment, and ancillary services necessary to effectively execute and deliver the required work output in accordance with the contract and project specifications. 1.2. CONTRACT DRAWINGS 1.2.1. Details and extent of work are shown in the Drawings accompanying these specifications. 1.2.2. Sketches and other details not shown in the Drawings shall be furnished by the Engineer/Architect during the phase of construction. 1.3. PARTS OF THE SPECIFICATIONS 1.3.1. These specifications include the following parts in which applicable provisions are binding on this contract. SECTION 1 GENERAL CONDITIONS AND REQUIREMENTS SECTION 2 DEMOLITION, HAULING, DISPOSAL, AND REPAIR WORKS SECTION 3 ARCHITECTURAL WORKS SECTION 4 ELECTRICAL WORKS SECTION 5 PLUMBING WORKS	1 LOT		

1.4. WORKMANSHIP

1.4.1. All operations required under all parts of the specifications shall be undertaken with the utmost workmanship and professional quality. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.

1.5. INSPECTION OF SITE

1.5.1. The Contractor's Bid shall be deemed as having been prepared with due consideration of the physical conditions at the site. By submitting the Tender, the Contractor certifies that they have conducted a comprehensive inspection and examination of the site and its surroundings. This inspection has informed their understanding of the scope of work, materials required for completion, means of access, and any necessary accommodations. Furthermore, the Contractor attests that they have acquired all relevant information regarding potential risks, contingencies, and any other factors that could influence or impact their Tender. The Contractor acknowledges that failure to inspect and examine the site conditions will not justify any request for additional costs or extensions of time

1.6. CONFLICT BETWEEN PLANS AND SPECIFICATIONS

1.6.1. The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence.

1.6.1.1. the Contract and its attachments (Approved Budget for the Contract, Terms of Reference, etc.)
1.6.1.2. the Specific Conditions of the Contract
1.6.1.3. the General Conditions of the Contract
1.6.1.4. the Technical Specifications
1.6.1.5. the Drawings
1.6.1.6. the Project Schedule and any other pertinent documents

1.6.2. Any omissions in the specifications regarding necessary work or works for the project's completion shall be executed by the Contractor as if such work were explicitly detailed in the drawings, without incurring additional costs. All such work shall be performed in accordance with standard practices, adhering to the requisite quality standards for both materials and workmanship.

1.6.3. Should there be any ambiguity or conflict between indication on drawings and provisions in specifications, the same shall be referred to the Engineer/Architect of TSU for resolution.

1.7. APPROVAL

1.7.1. The Contractor shall submit for the Engineer/Architect's approval, the complete list of manufacturer's names of all equipment and materials they propose to use for the project prior to actual installation on site.

1.8. REJECTIONS

1.8.1. All materials and workmanship must strictly comply with the specifications outlined in this contract. Any materials or workmanship failing to meet these standards may be rejected at any stage during project execution. The Contractor will receive formal documentation of any rejection issued by the authorized technical representative of TSU. Any completed work found to be non-compliant with the quality and specifications required by the project plans shall be promptly dismantled, removed, and reconstructed or otherwise corrected to meet all contractual and technical requirements.

1.9. VARIATIONS

1.9.1. The Engineer/Architect reserves the authority to implement minor adjustments in the work details or materials as deemed necessary. Such modifications may involve revisions to the shapes or dimensions of project elements. Any changes that result in additional costs to the Contractor will be subject to a corresponding adjustment of the contract price, as stipulated in the terms of the agreement.

1.10. AS-BUILT DRAWING AND PICTURES

1.10.1. The Contractor, with the approval of the Engineer/Architect shall mark down all the revisions, omissions, and/or additions to the various works on two sets of drawing plans as the construction progresses. One set of the plans as marked shall be submitted to the Engineer/Architect after the completion of work.

1.10.2. The Contractor shall submit As-Built Drawings to TSU, reflecting all modifications made and documented in the marked drawings retained by the Contractor. The As-Built Drawings shall be prepared in a reproducible format and provided alongside a minimum of three (3) A3-sized copies (11.7 in. x 16.6 in.).

1.10.3. The Contractor shall submit to TSU pictures of the site before, during, and after construction in reproducible and printed forms.

1.11. BILLBOARD

1.11.1. Upon possession of the project site, the Contractor shall immediately erect the Billboard, showing the relevant details of the project, at the location and position designated by TSU and of the dimensions and materials approved by TSU.

1.12. TEMPORARY FACILITIES

1.12.1. Upon possession of the project site, the Contractor shall immediately erect temporary facilities such as a field office, storage for equipment and materials, portable toilet, electric and water supply connections, etc., at the location designated by, and using only materials and the manner of construction approved by TSU.

1.13. MOBILIZATION AND DEMOBILIZATION

1.13.1. Upon receipt and acceptance of the Notice to Proceed, the Contractor shall immediately mobilize their workforce, equipment,

materials, and secure the project site with proper and prompt coordination to the Project-in-Charge.

1.13.2. Upon completion of the work, the Contractor shall commence the demobilization of the workforce, equipment, and materials and turn over the project site to TSU.

1.14. CONSTRUCTION OCCUPATION SAFETY AND HEALTH

1.14.1. The Contractor shall be responsible for ensuring the safety and health of the personnel assigned at the project site and other parties who may be affected in the implementation of the project.

1.14.2. The Contractor shall submit to TSU a copy of the Construction Occupation Safety and Health Program for the project that is duly approved by the Department of Labor and Employment before commencing with the work.

1.14.3. The Contractor shall designate a competent and qualified Safety Officer for the whole duration of the project.

1.14.4. The Contractor shall establish and implement safety procedures for all relevant jobs, tasks, and operations.

1.14.5. All personnel assigned to the project are expected to report for work in their proper uniforms, basic safety gear (helmets, boots, or shoes), and identification cards (IDs). The uniforms, basic safety gear, and IDs shall be provided by the Contractor at his/her own expense.

1.14.6. The Contractor shall erect temporary barricades, install early warning and precautionary signs, and provide other safety devices that may be required to keep the job site safe and secured. Use roof sheet or plywood for temporary barricade with standard height and stable framing within the construction site as indicated in the plan: do not use "Blue Sack".

1.14.7. The Contractor shall maintain, at the project site, ample supplies of expendable materials for the safety and health of its personnel and other affected parties such as safety tape, first-aid kits, safety gloves, dust masks, etc., the cost of which shall be included in the contract price.

1.14.8. The Contractor shall keep a record of all incidents (near-miss or accident) and report the same to the TSU Architect/Engineer.

SECTION 2 – DEMOLITION, HAULING, DISPOSAL, AND REPAIR WORKS

2.1. SCOPE OF WORKS

2.1.1. Demolition of existing walls, plumbing pipes, paver blocks, concrete pavement along the waterline source, hauling, and disposal shall include the removal and repair of all affected structures needed to complete the project.

2.2. PREVENTION OF DAMAGE TO ADJOINING PROPERTY

2.2.1. The Contractor shall take all necessary precautions to protect and preserve adjacent properties, trees, materials, and existing facilities, including conduits, drains, sewers, pipes, and other utilities that are to remain on the property. The Contractor shall be responsible for repairing or restoring any damage to these elements at no additional cost to TSU, regardless of the cause of the damage during the course of the work.

2.3. HAULING AND DISPOSAL

2.3.1. All unusable materials and debris resulting from the performance of work shall be removed from the premises and disposed of in the location and manner that shall be approved by TSU. All materials that can be reused shall be hauled and arranged properly by the Contractor before turning them over to TSU.

SECTION 3 – ARCHITECTURAL WORKS

3.1. TILING WORKS

3.1.1. Scope Of Work

3.1.1.1. The work covered under this section shall include the complete labor, and the supply materials, equipment and necessary to properly conduct and produce the-desired work product.

3.1.2. General

3.1.2.1. Prepare the floors to install directly to their corresponding surfaces. Deliver materials to the job in the manufacturer's unopened containers with the manufacturer's brand and name clearly marked thereon.

3.1.3. Material and Preparation

3.1.3.1. 600mm x 600mm glazed Porcelain floor tiles (Plain white). Approved brand and quality.

3.1.4. Installation

3.1.4.1. Clean the existing flooring.

3.1.4.2. Lay tiles in straight square patterns and cover from wall to wall. Install tile in such a manner that each tile is in contact with each adjacent tile and that the entire under- surface of each tile will be securely bonded.

3.1.4.3. Layout the field from the midpoint of the axis of the room so that the opposite end tile will be equal width. Width of the tile shall be subject to the variation required by the dimensions of the room and the size of the tile used. Scribe end tile to the wall and cut in a manner that will insure clean sharp edges.

3.1.4.4. Apply adhesive in accordance with manufacturer's recommendation. Secure cove base to walls with adhesive as specified for floor tiles.

3.1.5. Cleaning

3.1.5.1. Clean flooring of adhesive and other soiling. Remove adhesive with a putty knife and steel wool or with a cloth moistened with a neutral soap of a type approved by the manufacturer. The use of solvents and wet mopping is prohibited.

3.1.6. Protection

3.1.6.1. After cleaning, protect the floor until acceptance of the building.

3.1.7. Guarantee

3.1.7.1. Floors shall be guaranteed by the manufacturer against defects-in its floor tiles and by the Contractor against defects in workmanship for a period of one year from date of completion.

3.2. CEILING WORKS

3.2.1. Scope Of Work

3.2.1.1. This section shall include all materials, labor, materials, tools, equipment, and services necessary to complete the ceiling and wall works.

3.2.2. Submittal

3.2.2.1. Submit product information from manufacturers for each type of product specified including brochures, catalogs, samples, and certificates of test reports, quality compliance, and accreditation from foreign manufacturers for authenticity of locally distributed materials.

3.2.3. Delivery, Storage, And Handling

3.2.3.1. Deliver materials in manufacturer's original unopened packages clearly marked with identifying information. Protect materials as recommended by the manufacturer.

3.2.3.2. Store materials, keep them dry, and protect against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Stack gypsum panels on a level surface to prevent sagging.

3.2.4. Material

3.2.4.1. Ceiling

3.2.4.1.1. The ceiling shall be 9.00mm thk. Gypsum Board on a metal furring System. Approved brand and quality.

	3.2.4.1.2. Wall Angle shall (Baked White) be 0.40 mm thick 22 x 22 mm. 3.2.4.1.3. Metal Furring shall be 0.50 mm thick x 19 mm x 50 mm spaced at 400 mm (maximum) or if the thickness is less than 0.50 mm the spacing shall be at 300 mm o. c. 3.2.4.1.4. Carrying Channel 0.40 mm thick x 12 mm x 38 mm spaced at 1200 mm (maximum). 3.2.4.1.5. Complete with screws, double U-clip, and complete accessories 3.2.4.1.6. Adhesives for joints, fillers, and fastener concealment shall be of the types recommended in writing by the board manufacturer and as approved for the following uses. 3.2.4.1.7. Embedding compounds for first and second coats. 3.2.4.1.8. Finishing compound for the final coat. 3.2.5. Installation 3.2.5.1. Framing for furred ceilings shall be installed at the locations indicated in the drawings and shall conform to the standards. 3.2.5.2. Ceiling framing shall be suspended plumb from the structural slab or steel roof frame by hanger wires or straps, spaced no more than 1.20 m on centers. Hanger wires shall be: 3.2.5.2.1. wrapped around the reinforcing bars, of the supporting concrete-slab construction with twists before concrete is placed, or 3.2.5.2.2. shaped into 100 mm diameter loops and embedded at least 50 mm in the concrete, or 3.2.5.2.3. attached to approved inserts. 3.2.5.3. Hanger wires shall be looped around the bottom chord of the open-web steel joist, receiving three full turns around itself or structural steel members, or attached using beam clamps with three full turns. The Hanger Strap must be hung plumb and connected using 10 mm galvanized bolts and nuts to anchors embedded in the concrete or looped around structural framing and connected			

		with 10 mm galvanized bolts and nuts.			
		3.2.5.4. When splicing channels, ensure the ends overlap by at least 300 mm. The flanges of the channels should interlock and be securely fastened with rivets.			
		3.2.5.5. Framing is not required for ceilings attached to structural members, except for framing openings as specified. Furring as hereinafter specified shall be attached directly to structural members.			
		3.2.5.6. Steel channels shall be provided where steel furring is indicated for screw attachment of boards.			
		3.2.5.7. Furring shall be spliced with 200 mm nested laps securely tied near each end of the lap, with two loops of 1.0 mm tie wire. Splices shall be staggered.			
		3.2.5.8. Where the board abuts dissimilar wall materials, finish the perimeter of ceilings with an edge bead trim strip applied to the wall and accurately aligned with the finished ceiling. The board edges adjoining walls shall be laid on the horizontal leg of the trim strip against a continuous bead of approved sealant.			
		3.2.5.9. Special framing for beams, columns, soffits, and other special items shall be sized and built to the shapes or forms indicated by rigidly securing each intersection with board screws.			
		3.2.5.10. Provide support members at ceiling openings such as required for access panels, recessed light fixtures, and air supply or exhaust. Support members of not less than 38 mm main runner channels and suspension wires or straps shall be located to provide at least the minimum support specified herein for furring and board attachment.			
		3.2.5.11. The Board shall be applied with the separate boards in moderate contact but not forced into place at internal and external corners. Conceal cut edges with the overlapping covered edges of abutting boards. The boards shall be so staggered that the corners of any boards will not meet a common point except in vertical corners.			
		3.2.5.12. Apply the board to the ceilings with the long dimension perpendicular to the furring members. Alternatively, the long dimension may be applied parallel to furring members spaced 0.40 meters apart,			

provided end joints are properly supported.

3.2.6. Cleaning and Protection

3.2.6.1. Promptly remove any residual joint compound from adjacent surfaces not indicated to receive texture.

3.2.6.2. Provide final protection and maintain conditions, in a manner acceptable to the Installer, that ensures gypsum board assemblies are without damage or deterioration at the time of construction completion.

3.3. PAINTING WORKS

3.3.1. Scope Of Work

3.3.1.1. The Contractor shall furnish all materials, labor, equipment, and services required to complete the entire painting works herein called for. Painting works shall include the repainting of walls, columns, beams, railings, window frames, etc. of the existing building as specified hereinafter and required thereto.

3.3.2. Material

3.3.2.1. The brand of painting materials to be used shall be approved by TSU.

3.3.2.2. All steel must be painted with epoxy primer and a topcoat of quick-dry enamel.

3.3.2.3. All interior walls must be painted with off-white semi-gloss latex paint.

3.3.2.4. All ceilings must be painted with flat latex paint.

3.3.2.5. All wainscot must be painted with automotive lacquer paint.

3.3.2.6. All paint materials shall be delivered to the job site in their original containers. with labels and seals unbroken.

3.3.2.7. Except for ready-mixed materials in original containers, all mixing shall be done at the job site. No materials are to be reduced or changed except as specified by the manufacturer of the said materials. The use of white zinc (lithopone) is prohibited.

3.3.3. Colors

3.3.3.1. All colors of paints and varnishes shall be in accordance with the color scheme approved by TSU.

3.3.3.2. Submit samples of the proposed colors for approval. Only colors that have been approved may be used.

	3.3.3.3. No painting shall commence until color schemes have been approved by the Engineer/Architect. 3.3.3.4. Finishes for different portions of the work must be indicated in the Schedule of Specifications. 3.3.4. Surface Examination And Preparation 3.3.4.1. Before commencement of the work, the Contractor shall examine the surfaces to be applied with paints so as not to compromise the quality and appearance of a painting of finishing work. 3.3.4.2. No painting shall be done under conditions that may compromise the quality or appearance of the paint or finish. 3.3.4.3. All surfaces to be painted must be cleaned and in proper condition before application. 3.3.4.4. Voids, cracks, and all other kinds of defects shall be repaired with proper patching materials and finished flush with the surrounding surfaces. 3.3.5. Surface Conditioning 3.3.5.1. Apply topcoat on existing concrete and masonry surfaces. 3.3.5.2. Patch and seal hairline cracks and uneven areas with approved putty or patching compound. After correcting all defects, apply the finish coats as specified in the Plan, following the approved color scheme. 3.3.5.3. Metals shall be clean, dry, and free from mill scale and rust. Remove all grease and oil from surfaces. Wash unprimed galvanized metal with the etching solution and allow it to dry. 3.3.5.4. Metal surfaces shall be primed with epoxy primer. 3.3.6. Application 3.3.6.1. Paints, when applied by brush, shall be non-fluid; and thick enough to lay down an adequate film of wet paint. Brush marks must be smoothed out after the application of paint. 3.3.6.2. Paints intended for roller application must be similar to those used for brushing paint. The paint should not be sticky when thinned. 3.3.7. Workmanship 3.3.7.1. Experienced and skilled craftsmen shall perform all work to ensure finished work of first-			

class quality, appearance, and durability.

3.3.7.2. All paints and other coatings shall be mixed and applied strictly following the manufacturer's printed instructions.

3.3.8. Mixing And Thinning

3.3.8.1. At the time of application, paint shall show no sign of deterioration. Paint shall be thoroughly stirred, strained, and kept at a uniform consistency during application.

3.3.8.2. When thinning is necessary, this may be done immediately before application following the manufacturer's directions, but not more than 1 pint of suitable thinner per gallon of paint.

3.3.8.3. Kerosene shall not be used as paint thinner. Paints from the different manufacturers shall not be mixed.

3.3.9. Storage

3.3.9.1. All materials to be used for this item shall be stored in a single place designated by TSU. This storage area must always be kept neat and clean.

3.3.9.2. Take necessary precautions to prevent fire hazards by removing oily rags, waste, and other flammable materials at the end of each workday.

3.3.10. Cleaning

3.3.10.1. All clothes and cotton waste that pose a fire hazard must be placed in metal containers or destroyed at the end of each workday.

3.3.10.2. Upon completion of the work, remove all staging and paint containers, and dispose of them appropriately.

3.3.10.3. Remove any paint drips, oil, or stains from adjacent surfaces. Ensure the entire area is left clean and acceptable to the supervising Architect/Engineer.

3.4. FURNISHING AND ACCESSORIES

3.4.1. Scope of Work

3.4.1.1. The work covered under this section shall include the complete labor, and the supply materials, equipment, and necessary to properly conduct and produce the desired work product.

3.4.1.2. All furnishings to be installed must be approved by TSU.

3.4.2. Whiteboard

3.4.2.1. Fabrication and installation of Fixed Whiteboard:

3.4.2.1.1. White High Gloss Formica on 18mm thk. MDF Board (Machine Pressed)

3.4.2.1.2. 1" x 1" white powder coated aluminum perimeter frame and holder.

3.4.2.1.3. Use heavy-duty adhesive and 1 ½" Black Screw for installation

3.4.3. Wainscot

3.4.3.1. Fabrication and Installation of Wainscot:

3.4.3.1.1. 2" x 3" x 0.80mm thk. Metal Studs and Tracks

3.4.3.1.2. 9.00 mm thk. Fiber Cement Board (Smooth Paint Finish)

3.4.3.1.3. Fastener for Metal Framing: 5/32 x ½ Rivets

3.4.3.1.4. Fastener for Fiber Cement Board: 1 ½" Flat Head Black Screw

3.4.3.1.5. Use Wood Body Filler to cover all exposed fasteners prior to finishing works.

3.4.4. Signages

3.4.4.1. Proportioned lettering on 3mm thk. Clear Acrylic Glass with 4 pcs. 8mm x 17mm Stainless steel bolt screws. Font style, font size, text content shall be for approval.

3.5. DOORS AND WINDOWS

3.5.1. Scope Of Work

3.5.1.1. The Contractor shall furnish all materials, labor, equipment, tools, and services necessary to complete all specified work as shown in the drawings.

3.5.1.2. Remove and replace all existing doors and windows with items specified in the plans. See the architect's approved shop drawings and details showing fabrications. Protect glass from breakage before and after installation.

3.5.1.3. Provide all necessary hardware to complete the work. All hardware must be approved by TSU.

3.5.2. Materials

3.5.2.1. Doors

3.5.2.1.1. Frameless 12.00 mm thk. Tempered Glass Door (Double Swing) with Frosted Tint. Approved type/brand and quality.

	3.5.2.1.2. All hinges shall be SS304 Top and Bottom Glass Door Patch Fitting, including Patch Lock. Approved type/brand and quality. 3.5.3. Windows 3.5.3.1. All windows shall be aluminum analok awning windows with 6.0 mm thk. One-way Reflective (Exterior) tempered bronze glass. Approved type/brand and quality. 3.5.4. Glass And Glazing 3.5.4.1. The glass used must conform to the types and thicknesses specified in the Schedule of Specifications and as indicated on the drawings. 3.5.5. Shop Finish 3.5.5.1. Unless otherwise specified in the Schedules of Specifications, all steel doors, windows, and frames are to be bonderized. 3.5.6. Dimensions 3.5.6.1. The Contractor must verify all dimensions of the openings as shown in the drawings at the job site before fabricating the doors and windows. 3.5.7. Execution 3.5.7.1. Glasses must be accurately cut to fit and have uniform bearing across the entire width of the pane. Apply a thin layer of putty to the rebate, set the glass, and press it until an even bed is achieved. Remove any excess putty from each side, ensuring it is flush with the edge of the rebate. 3.5.7.2. Any glass breakage occurring during execution or due to faulty installation must be replaced by the Contractor at no additional cost. **SECTION 4 – ELECTRICAL WORKS** 4.1 SCOPE OF WORK 4.1.1 The Contractor shall provide all materials and equipment and perform all the work necessary for the complete execution of the electrical work specified herein; except as otherwise excluded, and which without excluding the generality of the foregoing, shall include but not be limited to the following principal items of work. All work shall be in accordance with the governing codes and regulations and with the specifications, except when the same shall conflict with such codes, etc. in which case the latter shall then govern.			

4.1.2 The work under this section shall include the furnishing of labor, materials, equipment, and services required to construct and install the new electrical system which includes, but is not limited to, the following items.

4.1.1.1 Provide a complete refurbished Lighting System.

4.1.1.2 Provide a complete refurbished Power and ACU System.

4.1.1.3 Provide a complete refurbished Auxiliary System.

4.1.1.4 Re-routing of existing circuit homeruns.

4.1.1.5 Provide a complete testing of all electrical systems.

a. Insulation Resistance Test
b. Ground Test
c. Performance Test

4.1.1.6 Optional items of work.

4.1.1.7 All tapping shall be executed inside the ceiling unless indicated in the plan and on the mounting type of equipment.

4.1.1.8 If anything has been omitted in any items of work on materials usually furnished, which are necessary for the completion of the Electrical Works as outlined herein before, then such must be and are hereby included in this section of the work.

4.2 GENERAL

4.2.1 Codes, Regulations, and Ordinances

4.2.1.1 The electrical item under this contract is to be installed according to the requirements of the latest Philippines Electrical Code, the rules and regulations of the Authority concerned and the requirements of the Power Company. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local Ordinances or Laws governing the installation of electrical work, and all laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.

4.2.2 Plans and Drawings

4.2.2.1 The Contract Drawings, which constitute an integral part of this contract, shall serve as workings drawings. They indicate the general layout of the complete electrical system and show arrangements of feeders, circuits, outlets, switches, control panel boards, service equipment, fixtures, and other works.

4.2.2.2 The Contractor shall check architectural, structural, and plumbing plans to avoid possible installation conflicts. Should drastically changes from original plans be necessary to resolve such conflicts, the Contractor shall notify the Engineer/Architect and shall secure from him written approval and agreement concerning necessary changes and adjustments before altered installation work is started.

4.2.3 Minor Modifications

4.2.3.1 The plans as drawn are based upon architectural plans and details show conditions as accurately as is possible to indicate them in scale. The plans are diagrammatical and do not necessarily show all fittings, etc., necessary to fit the conditions. The locations of lighting fixtures and switches shown on the plans are approximate. The Contractor shall be responsible for the proper location to make them fit with architectural details

4.2.4 Guarantees

4.2.4.1 The Contractor shall guarantee that the electrical system is free from all grounds and all defective workmanship and materials and will remain so for a period of one (1) year from the date of acceptance of the work. Any defects, appearing within the aforesaid period, shall be remedied by the Contractor at his own expense.

4.2.4.2 The Contractor shall indemnify and save harmless the TSU and his duly authorized representative from and against all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor, including all expenses, legal or other, which may be incurred by the TSU in the defense of any claim, action, or suit.

4.2.5 Samples and Drawings

4.2.5.1 The Contractor shall submit to the Engineer/Architect for approval samples of fixtures, conduit, wire, wiring devices, finished plates and of any item as may be required by the Engineer/Architect.

4.2.5.2 Prepare and submit for approval shop drawings or catalogs of equipment appliances and fixtures.

4.3 INSTALLATION REQUIREMENTS

4.3.1 All materials shall be new and shall conform to the standards specified in the Philippine Electrical Codes and others such as IEEE, AIA, IEEA and NEMA, for every case where such standard has been established for the particular type of materials in question.

4.3.2 All materials on all systems shall comply with the following specifications unless specifically accepted, and all materials that were not specified shall be of the best of their respective kind.

4.3.3 Cutting and Fitting

4.3.3.1 Contractor shall do all cutting and fitting required for the installation of the electrical items and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer/Architect.

4.3.4 Inserts, Anchor, Etc.

4.3.4.1 Furnish to the proper trades all inserts, anchors or other required items, which are to be built in by them for securing all hangers or other supports of conduit and for anchorages for electrical equipment.

4.3.5 Ground Tests

4.3.5.1 The entire installation shall be free from improper grounds and from short circuits.

4.3.5.2 Ground testing shall be performed and shall meet the standard resistance required by the NFPA, IEEE and PEC.

4.3.6 Insulation Resistance Test

4.3.6.1 The insulation resistance test is used to detect insulation damage or deterioration to help prevent electrical shocks, short circuits, and equipment failure.

4.3.6.2 Insulation Resistance testing shall be performed and shall meet the standard resistance required by the NFPA, IEEE and PEC.

4.3.7 Performance Test

4.3.7.1 It shall be the responsibility of the Contractor to test all systems of the entire electrical installation for proper operational conditions. These conditions shall apply to the power and lighting installations as well as the fire alarm system and motors.

4.4 MATERIALS

4.4.1 Wires and Cables

4.4.1.1 The installation shall be free from improper grounds and short circuits. All wires shall be copper, soft-drawn, and annealed, shall be of 98% conductivity, shall be smooth and fine and of a cylindrical form, and shall be within 1% of the actual size called for.

4.4.1.2 Wires shall be color coded as follows:

Line 1 --- Black
Line 2 --- Red
Ground --- Green

4.4.1.3 All wires and cables for lighting and power system shall be moisture and heat resistant rubber or thermoplastic insulate. It must be in conformity with the Philippine Electrical Code when used in damp or unit location. Wires shall be stranded for sizes #12 AWG.

4.4.1.4 All wires and cables shall comply with the requirements as to the particular usage and approved brand.

4.4.2 Pipes

4.4.2.1 Wiring shall be done in PVC Pipe for embedded and in RSC or EMT for run exposed; it shall be Schedule 40.

4.4.2.2 No tubing shall be used in any system smaller than ½" electric trade size, nor shall have more than four 90-degree bends in any one run and where necessary pull, boxes shall be provided as directed.

4.4.2.3 No wire shall be pulled into any conduit until the conduit system is complete in all details and in the case of concealed work until all rough plastering or masonry has been completed in every detail.

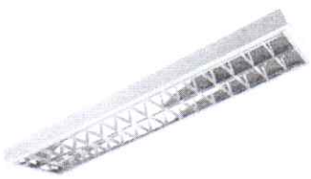
4.4.2.4 The ends of all conduits shall be tightly plugged to exclude plaster, dust, and moisture while the building is in the process of construction. All conduit ends shall be reamed to remove all burrs.

4.4.3 Junction And Pull Boxes

4.4.3.1 PVC Junction and pull boxes shall be provided as indicated or as required for facilitating and pulling of wire and cables. Pull boxes in finished places shall be located and installed with the permission and to the satisfaction of the contracting officer.

4.5 LIGHTING SYSTEM

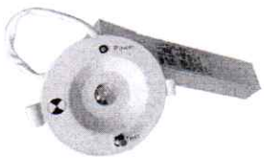
4.5.1 Install all new lighting fixtures as specified or at locations shown in plans or as directed by the Engineer/Architect.



- 2 – 18 Watts T8 LED tube light (daylight)
- Troffer Fixture with Louver Aluminum Reflector
- Surface Mounted

- 18 Watts LED Round Panel Light (daylight)

- Recessed Mounted

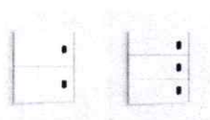


- 3 Watts LED Ceiling Mounted Emergency Light
- Recessed Mounted

- 9V DC Battery Operated Smoke Detector
- With alarm

- 16'' Blade Orbit Fan
- Plastic Blade
- 4-Speed Remote Switch

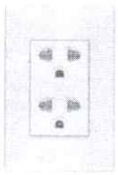
4.5.2 Wall switches shall be rated at 15 amperes, 250 volts, one way or as required. Switches shall be of quiet and automatic action type, silver contact, feather touch operation, and white.



- Two-gang/Three-gang Switch
- Wide Series with LED
- One way
- 250V, 15A

4.6 POWER AND AIR-CONDITION SYSTEM

4.6.1 Receptacles outlet shall be for flush mounted duplex universal outlet rated at 15 amperes, 250 volts.



- Duplex Universal Outlet with Ground
- Flush mounted
- 250V, 15A

4.6.2 Install all outlets as specified or at locations shown in plans or as directed by the Engineer/Architect.

4.6.3 PB-MED shall be a NEMA 1–type enclosure, recessed-mounted, bolt-on panelboard with eight (8) branches, one (1) spare space, and a center main. Refer to the plans for additional details.

4.6.4 Electric Sub-meter shall be installed at electrical room between the PB-MED and 4th floor DP.

- Analog Electric Sub-meter
- 240V, 1P, 10(60) A

4.6.5 NEMA-3R Enclosure shall be used outdoor for the supply of Split type Air-condition Unit.

- NEMA -3R Enclosure
- With 30AT,

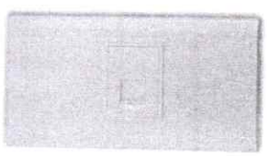
2P, MCCB Bolt-on
- Surface Mounted, Weatherproof

4.7 AUXILIARY SYSTEM

4.7.1 3/4" dia. PVC pipe with G.I. wire inside shall be installed as a conduit for future installation of Category 6 cables.

4.7.2 1-Gang wall mounted CAT6 Data Outlet shall be installed in reference to location shown in the plan.

4.7.3 TV and Data Outlets that are not included in the plan shall be covered with blank plate.



- 1-Gang Wall Mounted CAT6 Data Outlet
- RJ45 Port

- HDMI Outlet
- HDMI Cable (3m)

4.8 CONSUMABLE HARDWARE / FITTINGS

4.8.1 PVC Cement, G.I. wires, brackets, electrical tape, tox screw, and other small value materials needed to execute layouts and termination of electrical works shall be considered as consumable hardware.

4.8.2 Junction box, pullbox, Utility box, adaptor, locknut, coupling, unistrat channel, unistrat strap, full thread round rod, expansion/anchor bolt, bolts, nuts, washer, etc. and other small value materials needed to execute layouts and termination of electrical works shall be considered as Fittings.

SECTION 5 – PLUMBING WORKS

5.1. SCOPE OF WORK

5.1.1. Furnish all materials, labor, tools, equipment, and other facilities required for the complete installation, testing, and operation of the plumbing system. This includes, but is not limited to:

5.1.1.1. Installation of new sanitary waste pipes to

be connected to the existing drainage.

5.1.1.2. Installation of new water distribution pipes

5.1.1.3. Installation of new plumbing fixtures, fittings, and accessories.

5.1.1.4. All additional work required to ensure the complete operation of the new plumbing system (sanitary, water supply, and pump systems) for the project. All work must comply with applicable laws of the Republic of the Philippines and local codes and ordinances.

5.1.2. All plumbing work and pipe sizes must adhere to the National Plumbing Code of the Philippines and local requirements and ordinances.

5.1.3. The Contractor must review all architectural, structural, and electrical plans, along with this specification. The Contractor is responsible for investigating all potential interferences and existing site conditions affecting the installation and operation of the new plumbing system.

5.1.4. The drawings detail the pipes, valves, and appliances for the project. Any items not specifically mentioned but necessary for the complete system, in accordance with best plumbing practices and to the satisfaction of the Engineer/Architect, must also be furnished and installed.

5.2. PLUMBING FIXTURES AND ACCESSORIES

5.2.1. All plumbing fixtures and accessories must conform to Philippine standards and meet the following specifications:

5.2.1.1. Stainless steel sink; foot pedal operated (including faucet and drain accessories): Approved type, quality, and brand.

	5.3. WASTE AND DRAIN PIPES 5.3.1. Installation 5.3.1.1. All sewer lines shall be pitched 6 mm per 300 mm (1/4" per foot) for soil pipes and no case flatter than 3 mm per 300 mm (1/8" per foot) for waste pipes. 5.3.1.2. Changes in pipe sizes for soil, waste, and drain lines must be made using reducing fittings or reducers. Changes in direction should use forty-five-degree (45°) wyes or long sweep bends, with sanitary tees permitted for vertical stacks. Short quarter bends or elbows may be used where the direction changes from horizontal to vertical, and on the discharge from the water closet. 5.3.2. Traps 5.3.2.1. Each plumbing fixture must have a separate, vented water-sealed trap installed as close to the fixture outlet as possible, but in no case at a distance greater than 600 millimeters. Traps shall be of the same diameter as the waste pipes from the fixtures which they shall serve; all traps shall have a water seal of at least 32 millimeters with a brass thumbscrew clean out at the bottom of the seal. 5.3.3. Vent 5.3.3.1. Vents shall be taken from the crown of the fixtures, except for water closet traps, in which case, the branch line shall be vented below the trap and above all small waste line inlets, so connected as to prevent obstructions. Each vent pipe shall run separately above the fixtures into the adjacent soil pipes, not more than 1.50 meters. If more than this distance, the vent shall run independently through the roof. 5.3.3.2. A vent line shall, wherever practicable, be a direct extension of a soil or waste line.			

	5.3.3.3. Main vent risers at 4.5 meters or longer shall be connected at the foot with the main water or soil pipes below the lowest vent outlet with a forty-five-degree connection. 5.3.4. Pipes and fittings 5.3.4.1. Waste Pipe – shall be Polyvinyl Chloride (PVC) pipes, Series 1000. 5.3.5. Joints and Connections 5.3.5.1. All joints shall be air and watertight. 5.3.5.2. PVC Pipes and Fittings – socket type with PVC solvent cement, elastomeric rubber O-ring gasket, or as per the Manufacturer's recommendations. 5.3.5.3. Dissimilar Pipes – Use adaptor fittings. 5.4. COLD WATER DISTRIBUTION 5.4.1. Pipes and Fittings 5.4.1.1. Waterline pipes and fittings, including Gate Valves inside the building, shall be Polypropylene Random Copolymer (PPR) PN20 pipes. 5.4.2. Installation 5.4.2.1. The piping shall be extended to all fixtures, outlets, and equipment from the gate valves installed in the branch near the riser. 5.4.2.2. Each fixture shall have a shutoff valve and union to permit isolation and disconnection without affecting the rest of the system, whether indicated on the drawings or not. 5.4.2.3. All pipes shall be cut accurately to measurement and shall be worked into place without springing or facing. Care shall be taken so as not to weaken the structural portions of the building.			

5.4.2.4. Changes in sizes shall be made with reducing fittings.

5.4.3. Valves

5.4.3.1. Gate Valves installed inside the building shall be Polypropylene Random Copolymer (PPR). Approved type, quality, and brand.

5.5. MISCELLANEOUS

5.5.1. Cleanout shall be PVC or Brass type, designed to be gas and watertight. They must allow for quick and easy plug removal to provide ample space for cleansing tools.

5.5.2. Cleanout shall be of the same size as the pipe.

5.5.3. The cleanout located inside the building shall be placed on the flooring level and provided with a brass cover. Additionally, use PVC cover for cleanout located outside the building.

Cleanout with Brass Cover

Cleanout with PVC

5.6. DEFECTIVE WORK

5.6.1. If any defects are found during inspection or testing, the defective work or materials shall be replaced, and the test shall be repeated until satisfactory to the Project-In-Charge.

5.6.2. All repairs to the piping shall be made with new materials at the expense of the Contractor.

5.6.3. Caulking of screwed joints or holes will not be accepted.

5.7. PERFORMANCE TEST

5.7.1. The Contractor is responsible for testing all systems of the entire plumbing installation to ensure proper operational condition. These tests must be conducted in the presence of the Project-in-charge.

KEY PERSONNEL AND EQUIPMENT

The minimum work experience requirements for key personnel are the following:

Key Personnel / Qualification and Experience

	Civil Engineer/Architect (Project In-charge) • With at least 2 years of experience in construction project supervision as a licensed professional. Registered Electrical Engineer/Master Electrician • With at least 1 year of experience in construction project supervision as a licensed professional. Registered Master Plumber/Plumber • With at least 1 year of experience in construction project supervision as a licensed professional; or • TESDA NCII Holder with at least 1 year of experience in plumbing installation projects Safety Officer II • DOLE accredited construction occupation safety officer • With at least 1 year of experience as a Safety Officer in construction projects Foreman • With at least 3 years of experience as foreman in building construction project. The minimum major equipment requirements are the following: Equipment — Min. Capacity — Min. Quantity Elf Truck — 3-5 cu.m. — 1 Welding Machine — 300A&600A — 1 Angle Grinder — 700W — 1 Cut-off Machine — Up to 8" tube — 1			
Warranty Period (for equipment, tools, and devices)				
Delivery Period (60 calendar day)				
****nothing as follows****				

Payment Terms

Payment shall be made through Landbank's LDDAPADA/Bank Transfer Facility, issuance of check or cash on delivery (COD) within thirty (30) calendar days after receipt of sales/service invoice and issuance of Inspection and Acceptance Report/Certificate of Acceptance from the End-User. In case accounts maintained in other banks, bank transfer fees shall be chargeable against the creditor's account.

Interested suppliers shall provide the following Bank Details in the statement of compliance column:

Bank Name: _____

Bank Branch/Address: _____

Bank Account Name: _____

Bank Account Number: _____

FINANCIAL OFFER:

Labor and Materials for Conversion of TSU Hotel Rooms 416 and 418 into College of Medicine Temporary Laboratory Rooms	
Approved Budget for the Contract (ABC): **One Million Nine Hundred Ninety-Nine Thousand Five Hundred Forty-One Pesos and 09/100 (PhP1,999,541.09)**	
Total Offered Quotation	**In Words:**
	In Figures:

_____
Signature Over Printed Name

_____
Position/Designation

_____
Company Registered Name

_____
Office Telephone/Mobile Nos.

_____
Email Address/es

_____
Date

PhilGEPS Philippine Government Electronic Procurement System — Central Portal for Philippine Government Procurement Oppurtunities

Help

Bid Notice Abstract

Request for Quotation (RFQ)

Reference Number	12718880
Procuring Entity	TARLAC STATE UNIVERSITY
Title	Labor and Materials for Conversion of TSU Hotel Rooms 416 and 418 into College of Medicine Temporary Laboratory Rooms
Area of Delivery	Tarlac

Solicitation Number:	014-2026
Trade Agreement:	Implementing Rules and Regulations
Procurement Mode:	Negotiated Procurement - Small Value Procurement (Sec. 53.9)
Classification:	Civil Works
Category:	Construction Projects
Approved Budget for the Contract:	PHP 1,999,541.09
Delivery Period:	60 Day/s
Client Agency:	
Contact Person:	Tutchie Panlilio Clerk TSU, Romulo Blvd. San Vicente, Tarlac City, Philip Tarlac City Tarlac Philippines 2300 63-045-6068110 Ext.157 tsucanvassing@gmail.com

Status	**Pending**
Associated Components	4
Bid Supplements	0
Document Request List	0
Date Published	10/01/2026
Last Updated / Time	09/01/2026 11:12 AM
Closing Date / Time	21/01/2026 13:00 PM

Description

TECHNICAL SPECIFICATIONS

SECTION 1 – GENERAL CONDITIONS AND REQUIREMENTS
1.
1.1. SCOPE OF WORK

1.1.1. The project shall cover the completion of the CONVERSION OF TSU HOTEL ROOMS 416 & 418 INTO COLLEGE OF MEDICINE TEMPORARY LABORATORY ROOMS, which shall include the supervision and furnishing of labor, supplies, materials, equipment, and ancillary services necessary to effectively execute and deliver the required work output in accordance with the contract and project specifications.

1.2. CONTRACT DRAWINGS

1.2.1. Details and extent of work are shown in the Drawings accompanying these specifications.

1.2.2. Sketches and other details not shown in the Drawings shall be furnished by the Engineer/Architect during the phase of construction.

1.3. PARTS OF THE SPECIFICATIONS

1.3.1. These specifications include the following parts in which applicable provisions are binding on this contract.

SECTION 1 GENERAL CONDITIONS AND REQUIREMENTS
SECTION 2 DEMOLITION, HAULING, DISPOSAL, AND REPAIR WORKS
SECTION 3 ARCHITECTURAL WORKS
SECTION 4 ELECTRICAL WORKS
SECTION 5 PLUMBING WORKS

1.4. WORKMANSHIP

1.4.1. All operations required under all parts of the specifications shall be undertaken with the utmost workmanship and professional quality. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.

1.5. INSPECTION OF SITE

1.5.1. The Contractor's Bid shall be deemed as having been prepared with due consideration of the physical conditions at the site. By submitting the Tender, the Contractor certifies that they have conducted a comprehensive inspection and examination of the site and its surroundings. This inspection has informed their understanding of the scope of work, materials required for completion, means of access, and any necessary accommodations. Furthermore, the Contractor attests that they have acquired all relevant information regarding potential risks, contingencies, and any other factors that could influence or impact their Tender. The Contractor acknowledges that failure to inspect and examine the site conditions will not justify any request for additional costs or extensions of time

1.6. CONFLICT BETWEEN PLANS AND SPECIFICATIONS

1.6.1. The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence.

1.6.1.1. the Contract and its attachments (Approved Budget for the Contract, Terms of Reference, etc.)
1.6.1.2. the Specific Conditions of the Contract
1.6.1.3. the General Conditions of the Contract
1.6.1.4. the Technical Specifications
1.6.1.5. the Drawings
1.6.1.6. the Project Schedule and any other pertinent documents

1.6.2. Any omissions in the specifications regarding necessary work or works for the project's completion shall be executed by the Contractor as if such work were explicitly detailed in the drawings, without incurring additional costs. All such work shall be performed in accordance with standard practices, adhering to the requisite quality standards for both materials and workmanship.

1.6.3. Should there be any ambiguity or conflict between indication on drawings and provisions in specifications, the same shall be referred to the Engineer/Architect of TSU for resolution.

1.7. APPROVAL

1.7.1. The Contractor shall submit for the Engineer/Architect's approval, the complete list of manufacturer's names of all equipment and materials they propose to use for the project prior to actual installation on site.

1.8. REJECTIONS

1.8.1. All materials and workmanship must strictly comply with the specifications outlined in this contract. Any materials or workmanship failing to meet these standards may be rejected at any stage during project execution. The Contractor will receive formal documentation of any rejection issued by the authorized technical representative of TSU. Any completed work found to be non-compliant with the quality and specifications required by the project plans shall be promptly dismantled, removed, and reconstructed or otherwise corrected to meet all contractual and technical requirements.

1.9. VARIATIONS

1.9.1. The Engineer/Architect reserves the authority to implement minor adjustments in the work details or materials as deemed necessary. Such modifications may involve revisions to the shapes or dimensions of project elements. Any changes that result in additional costs to the Contractor will be subject to a corresponding adjustment of the contract price, as stipulated in the terms of the agreement.

1.10. AS-BUILT DRAWING AND PICTURES

1.10.1. The Contractor, with the approval of the Engineer/Architect shall mark down all the revisions, omissions, and/or additions to the various works on two sets of drawing plans as the construction progresses. One set of the plans as marked shall be submitted to the Engineer/Architect after the completion of work.

1.10.2. The Contractor shall submit As-Built Drawings to TSU, reflecting all modifications made and documented in the marked drawings retained by the Contractor. The As-Built Drawings shall be prepared in a reproducible format and provided alongside a minimum of three (3) A3-sized copies (11.7 in. x 16.6 in.).

1.10.3. The Contractor shall submit to TSU pictures of the site before, during, and after construction in reproducible and printed forms.

1.11. BILLBOARD

1.11.1. Upon possession of the project site, the Contractor shall immediately erect the Billboard, showing the relevant details of the project, at the location and position designated by TSU and of the dimensions and materials approved by TSU.

1.12. TEMPORARY FACILITIES

1.12.1. Upon possession of the project site, the Contractor shall immediately erect temporary facilities such as a field office, storage for equipment and materials, portable toilet, electric and water supply connections, etc., at the location designated by, and using only materials and the manner of construction approved by TSU.

1.13. MOBILIZATION AND DEMOBILIZATION

1.13.1. Upon receipt and acceptance of the Notice to Proceed, the Contractor shall immediately mobilize their workforce, equipment, materials, and secure the project site with proper and prompt coordination to the Project-in-Charge.

1.13.2. Upon completion of the work, the Contractor shall commence the demobilization of the workforce, equipment, and materials and turn over the project site to TSU.

1.14. CONSTRUCTION OCCUPATION SAFETY AND HEALTH

1.14.1. The Contractor shall be responsible for ensuring the safety and health of the personnel assigned at the project site and other parties who may be affected in the implementation of the project.

1.14.2. The Contractor shall submit to TSU a copy of the Construction Occupation Safety and Health Program for the project that is duly approved by the Department of Labor and Employment before commencing with the work.

1.14.3. The Contractor shall designate a competent and qualified Safety Officer for the whole duration of the project.

1.14.4. The Contractor shall establish and implement safety procedures for all relevant jobs, tasks, and operations.

1.14.5. All personnel assigned to the project are expected to report for work in their proper uniforms, basic safety gear (helmets, boots, or shoes), and identification cards (IDs). The uniforms, basic safety gear, and IDs shall be provided by the Contractor at his/her own expense.

1.14.6. The Contractor shall erect temporary barricades, install early warning and precautionary signs, and provide other safety devices that may be required to keep the job site safe and secured. Use roof sheet or plywood for temporary barricade with standard height and stable framing within the construction site as indicated in the plan: do not use "Blue Sack".

1.14.7. The Contractor shall maintain, at the project site, ample supplies of expendable materials for the safety and health of its personnel and other affected parties such as safety tape, first-aid kits, safety gloves, dust masks, etc., the cost of which shall be included in the contract price.

1.14.8. The Contractor shall keep a record of all incidents (near-miss or accident) and report the same to the TSU Architect/Engineer.

SECTION 2 – DEMOLITION, HAULING, DISPOSAL, AND REPAIR WORKS

2.1. SCOPE OF WORKS

2.1.1. Demolition of existing walls, plumbing pipes, paver blocks, concrete pavement along the waterline source, hauling, and disposal shall include the removal and repair of all affected structures needed to complete the project.

2.2. PREVENTION OF DAMAGE TO ADJOINING PROPERTY

2.2.1. The Contractor shall take all necessary precautions to protect and preserve adjacent properties, trees, materials, and existing facilities, including conduits, drains, sewers, pipes, and other utilities that are to remain on the property. The Contractor shall be responsible for repairing or restoring any damage to these elements at no additional cost to TSU, regardless of the cause of the damage during the course of the work.

2.3. HAULING AND DISPOSAL

2.3.1. All unusable materials and debris resulting from the performance of work shall be removed from the premises and disposed of in the location and manner that shall be approved by TSU. All materials that can be reused shall be hauled and arranged properly by the Contractor before turning them over to TSU.

SECTION 3 – ARCHITECTURAL WORKS

3.1. TILING WORKS
3.1.1. Scope Of Work
3.1.1.1. The work covered under this section shall include the complete labor, and the supply materials, equipment and necessary to properly conduct and produce the-desired work product.
3.1.2. General
3.1.2.1. Prepare the floors to install directly to their corresponding surfaces. Deliver materials to the job in the manufacturer's unopened containers with the manufacturer's brand and name clearly marked thereon.
3.1.3. Material and Preparation
3.1.3.1. 600mm x 600mm glazed Porcelain floor tiles (Plain white). Approved brand and quality.
3.1.4. Installation
3.1.4.1. Clean the existing flooring.
3.1.4.2. Lay tiles in straight square patterns and cover from wall to wall. Install tile in such a manner that each tile is in contact with each adjacent tile and that the entire under surface of each tile will be securely bonded.
3.1.4.3. Layout the field from the midpoint of the axis of the room so that the opposite end tile will be equal width. Width of the tile shall be subject to the variation required by the dimensions of the room and the size of the tile used. Scribe end tile to the wall and cut in a manner that will insure clean sharp edges.
3.1.4.4. Apply adhesive in accordance with manufacturer's recommendation. Secure cove base to walls with adhesive as specified for floor tiles.
3.1.5. Cleaning
3.1.5.1. Clean flooring of adhesive and other soiling. Remove adhesive with a putty knife and steel wool or with a cloth moistened with a neutral soap of a type approved by the manufacturer. The use of solvents and wet mopping is prohibited.
3.1.6. Protection
3.1.6.1. After cleaning, protect the floor until acceptance of the building.
3.1.7. Guarantee
3.1.7.1. Floors shall be guaranteed by the manufacturer against defects-in its floor tiles and by the Contractor against defects in workmanship for a period of one year from date of completion.

3.2. CEILING WORKS

3.2.1. Scope Of Work

3.2.1.1. This section shall include all materials, labor, materials, tools, equipment, and services necessary to complete the ceiling and wall works.

3.2.2. Submittal

3.2.2.1. Submit product information from manufacturers for each type of product specified including brochures, catalogs, samples, and certificates of test reports, quality compliance, and accreditation from foreign manufacturers for authenticity of locally distributed materials.

3.2.3. Delivery, Storage, And Handling

3.2.3.1. Deliver materials in manufacturer's original unopened packages clearly marked with identifying information. Protect materials as recommended by the manufacturer.

3.2.3.2. Store materials, keep them dry, and protect against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Stack gypsum panels on a level surface to prevent sagging.

3.2.4. Material

3.2.4.1. Ceiling

3.2.4.1.1. The ceiling shall be 9.00mm thk. Gypsum Board on a metal furring System. Approved brand and quality.

3.2.4.1.2. Wall Angle shall (Baked White) be 0.40 mm thick 22 x 22 mm.

3.2.4.1.3. Metal Furring shall be 0.50 mm thick x 19 mm x 50 mm spaced at 400 mm (maximum) or if the thickness is less than 0.50 mm the spacing shall be at 300 mm o. c.

3.2.4.1.4. Carrying Channel 0.40 mm thick x 12 mm x 38 mm spaced at 1200 mm (maximum).

3.2.4.1.5. Complete with screws, double U-clip, and complete accessories

3.2.4.1.6. Adhesives for joints, fillers, and fastener concealment shall be of the types recommended in writing by the board manufacturer and as approved for the following uses.

3.2.4.1.7. Embedding compounds for first and second coats.

3.2.4.1.8. Finishing compound for the final coat.

3.2.5. Installation

3.2.5.1. Framing for furred ceilings shall be installed at the locations indicated in the drawings and shall conform to the standards.

3.2.5.2. Ceiling framing shall be suspended plumb from the structural slab or steel roof frame by hanger wires or straps, spaced no more than 1.20 m on centers. Hanger wires shall be:

3.2.5.2.1. wrapped around the reinforcing bars, of the supporting concrete-slab construction with twists before concrete is placed, or
3.2.5.2.2. shaped into 100 mm diameter loops and embedded at least 50 mm in the concrete, or
3.2.5.2.3. attached to approved inserts.

3.2.5.3. Hanger wires shall be looped around the bottom chord of the open-web steel joist, receiving three full turns around itself or structural steel members, or attached using beam clamps with three full turns. The Hanger Strap must be hung plumb and connected using 10 mm galvanized bolts and nuts to anchors embedded in the concrete or looped around structural framing and connected with 10 mm galvanized bolts and nuts.

3.2.5.4. When splicing channels, ensure the ends overlap by at least 300 mm. The flanges of the channels should interlock and be securely fastened with rivets.

3.2.5.5. Framing is not required for ceilings attached to structural members, except for framing openings as specified. Furring as hereinafter specified shall be attached directly to structural members.

3.2.5.6. Steel channels shall be provided where steel furring is indicated for screw attachment of boards.

3.2.5.7. Furring shall be spliced with 200 mm nested laps securely tied near each end of the lap, with two loops of 1.0 mm tie wire. Splices shall be staggered.

3.2.5.8. Where the board abuts dissimilar wall materials, finish the perimeter of ceilings with an edge bead trim strip applied to the wall and accurately aligned with the finished ceiling. The board edges adjoining walls shall be laid on the horizontal leg of the trim strip against a continuous bead of approved sealant.

3.2.5.9. Special framing for beams, columns, soffits, and other special items shall be sized and built to the shapes or forms indicated by rigidly securing each intersection with board screws.

3.2.5.10. Provide support members at ceiling openings such as required for access panels, recessed light fixtures, and air supply or exhaust. Support members of not less than 38 mm main runner channels and suspension wires or straps shall be located to provide at least the minimum support specified herein for furring and board attachment.

3.2.5.11. The Board shall be applied with the separate boards in moderate contact but not forced into place at internal and external corners. Conceal cut edges with the overlapping covered edges of abutting boards. The boards shall be so staggered that the corners of any boards will not meet a common point except in vertical corners.

3.2.5.12. Apply the board to the ceilings with the long dimension perpendicular to the furring members. Alternatively, the long dimension may be applied parallel to furring members spaced 0.40 meters apart, provided end joints are properly supported.

3.2.6. Cleaning and Protection

3.2.6.1. Promptly remove any residual joint compound from adjacent surfaces not indicated to receive texture.

3.2.6.2. Provide final protection and maintain conditions, in a manner acceptable to the Installer, that ensures gypsum board assemblies are without damage or deterioration at the time of construction completion.

3.3. PAINTING WORKS

3.3.1. Scope Of Work

3.3.1.1. The Contractor shall furnish all materials, labor, equipment, and services required to complete the entire painting works herein called for. Painting works shall include the repainting of walls, columns, beams, railings, window frames, etc. of the existing building as specified hereinafter and required thereto.

3.3.2. Material

3.3.2.1. The brand of painting materials to be used shall be approved by TSU.

3.3.2.2. All steel must be painted with epoxy primer and a topcoat of quick-dry enamel.

3.3.2.3. All interior walls must be painted with off-white semi-gloss latex paint.

3.3.2.4. All ceilings must be painted with flat latex paint.

3.3.2.5. All wainscot must be painted with automotive lacquer paint.

3.3.2.6. All paint materials shall be delivered to the job site in their original containers. with labels and seals unbroken.

3.3.2.7. Except for ready-mixed materials in original containers, all mixing shall be done at the job site. No materials are to be reduced or changed except as specified by the manufacturer of the said materials. The use of white zinc (lithopone) is prohibited.

3.3.3. Colors

3.3.3.1. All colors of paints and varnishes shall be in accordance with the color scheme approved by TSU.

3.3.3.2. Submit samples of the proposed colors for approval. Only colors that have been approved may be used.

3.3.3.3. No painting shall commence until color schemes have been approved by the Engineer/Architect.

3.3.3.4. Finishes for different portions of the work must be indicated in the Schedule of Specifications.

3.3.4. Surface Examination And Preparation

3.3.4.1. Before commencement of the work, the Contractor shall examine the surfaces to be applied with paints so as not to compromise the quality and appearance of a painting of finishing work.

3.3.4.2. No painting shall be done under conditions that may compromise the quality or appearance of the paint or finish.

3.3.4.3. All surfaces to be painted must be cleaned and in proper condition before application.

3.3.4.4. Voids, cracks, and all other kinds of defects shall be repaired with proper patching materials and finished flush with the surrounding surfaces.

3.3.5. Surface Conditioning

3.3.5.1. Apply topcoat on existing concrete and masonry surfaces.

3.3.5.2. Patch and seal hairline cracks and uneven areas with approved putty or patching compound. After correcting all defects, apply the finish coats as specified in the Plan, following the approved color scheme.

3.3.5.3. Metals shall be clean, dry, and free from mill scale and rust. Remove all grease and oil from surfaces. Wash unprimed galvanized metal with the etching solution and allow it to dry.

3.3.5.4. Metal surfaces shall be primed with epoxy primer.

3.3.6. Application

3.3.6.1. Paints, when applied by brush, shall be non-fluid; and thick enough to lay down an adequate film of wet paint. Brush marks must be smoothed out after the application of paint.

3.3.6.2. Paints intended for roller application must be similar to those used for brushing paint. The paint should not be sticky when thinned.

3.3.7. Workmanship

3.3.7.1. Experienced and skilled craftsmen shall perform all work to ensure finished work of first-class quality, appearance, and durability.

3.3.7.2. All paints and other coatings shall be mixed and applied strictly following the manufacturer's printed instructions.

3.3.8. Mixing And Thinning

3.3.8.1. At the time of application, paint shall show no sign of deterioration. Paint shall be thoroughly stirred, strained, and kept at a uniform consistency during application.

3.3.8.2. When thinning is necessary, this may be done immediately before application following the manufacturer's directions, but not more than 1 pint of suitable thinner per gallon of paint.

3.3.8.3. Kerosene shall not be used as paint thinner. Paints from the different manufacturers shall not be mixed.

3.3.9. Storage

3.3.9.1. All materials to be used for this item shall be stored in a single place designated by TSU. This storage area must always be kept neat and clean.

3.3.9.2. Take necessary precautions to prevent fire hazards by removing oily rags, waste, and other flammable materials at the end of each workday.

3.3.10. Cleaning

3.3.10.1. All clothes and cotton waste that pose a fire hazard must be placed in metal containers or destroyed at the end of each workday.

3.3.10.2. Upon completion of the work, remove all staging and paint containers, and dispose of them appropriately.

3.3.10.3. Remove any paint drips, oil, or stains from adjacent surfaces. Ensure the entire area is left clean and acceptable to the supervising Architect/Engineer.

3.4. FURNISHING AND ACCESSORIES

3.4.1. Scope of Work

3.4.1.1. The work covered under this section shall include the complete labor, and the supply materials, equipment, and necessary to properly conduct and produce the desired work product.

3.4.1.2. All furnishings to be installed must be approved by TSU.

3.4.2. Whiteboard

3.4.2.1. Fabrication and installation of Fixed Whiteboard:
3.4.2.1.1. White High Gloss Formica on 18mm thk. MDF Board (Machine Pressed)
3.4.2.1.2. 1" x 1" white powder coated aluminum perimeter frame and holder.
3.4.2.1.3. Use heavy-duty adhesive and 1 ½" Black Screw for installation

3.4.3. Wainscot

3.4.3.1. Fabrication and Installation of Wainscot:

3.4.3.1.1. 2" x 3" x 0.80mm thk. Metal Studs and Tracks
3.4.3.1.2. 9.00 mm thk. Fiber Cement Board (Smooth Paint Finish)
3.4.3.1.3. Fastener for Metal Framing: 5/32 x ½ Rivets
3.4.3.1.4. Fastener for Fiber Cement Board: 1 ½" Flat Head Black Screw
3.4.3.1.5. Use Wood Body Filler to cover all exposed fasteners prior to finishing works.

3.4.4. Signages

3.4.4.1. Proportioned lettering on 3mm thk. Clear Acrylic Glass with 4 pcs. 8mm x 17mm Stainless steel bolt screws. Font style, font size, text content shall be for approval.

3.5. DOORS AND WINDOWS

3.5.1. Scope Of Work

3.5.1.1. The Contractor shall furnish all materials, labor, equipment, tools, and services necessary to complete all specified work as shown in the drawings.
3.5.1.2. Remove and replace all existing doors and windows with items specified in the plans. See the architect's approved shop drawings and details showing fabrications. Protect glass from breakage before and after installation.
3.5.1.3. Provide all necessary hardware to complete the work. All hardware must be approved by TSU.

3.5.2. Materials

3.5.2.1. Doors

3.5.2.1.1. Frameless 12.00 mm thk. Tempered Glass Door (Double Swing) with Frosted Tint. Approved type/brand and quality.

3.5.2.1.2. All hinges shall be SS304 Top and Bottom Glass Door Patch Fitting, including Patch Lock. Approved type/brand and quality.

3.5.3. Windows

3.5.3.1. All windows shall be aluminum analok awning windows with 6.0 mm thk. One-way Reflective (Exterior) tempered bronze glass. Approved type/brand and quality.

3.5.4. Glass And Glazing

3.5.4.1. The glass used must conform to the types and thicknesses specified in the Schedule of Specifications and as indicated on the drawings.

3.5.5. Shop Finish

3.5.5.1. Unless otherwise specified in the Schedules of Specifications, all steel doors, windows, and frames are to be bonderized.

3.5.6. Dimensions

3.5.6.1. The Contractor must verify all dimensions of the openings as shown in the drawings at the job site before fabricating the doors and windows.

3.5.7. Execution

3.5.7.1. Glasses must be accurately cut to fit and have uniform bearing across the entire width of the pane. Apply a thin layer of putty to the rebate, set the glass, and press it until an even bed is achieved. Remove any excess putty

from each side, ensuring it is flush with the edge of the rebate.

3.5.7.2. Any glass breakage occurring during execution or due to faulty installation must be replaced by the Contractor at no additional cost.

SECTION 4 – ELECTRICAL WORKS

4.1 SCOPE OF WORK

4.1.1 The Contractor shall provide all materials and equipment and perform all the work necessary for the complete execution of the electrical work specified herein; except as otherwise excluded, and which without excluding the generality of the foregoing, shall include but not be limited to the following principal items of work. All work shall be in accordance with the governing codes and regulations and with the specifications, except when the same shall conflict with such codes, etc. in which case the latter shall then govern.

4.1.2 The work under this section shall include the furnishing of labor, materials, equipment, and services required to construct and install the new electrical system which includes, but is not limited to, the following items.

4.1.1.1 Provide a complete refurbished Lighting System.

4.1.1.2 Provide a complete refurbished Power and ACU System.

4.1.1.3 Provide a complete refurbished Auxiliary System.

4.1.1.4 Re-routing of existing circuit homeruns.

4.1.1.5 Provide a complete testing of all electrical systems.

a. Insulation Resistance Test
b. Ground Test
c. Performance Test

4.1.1.6 Optional items of work.

4.1.1.7 All tapping shall be executed inside the ceiling unless indicated in the plan and on the mounting type of equipment.

4.1.1.8 If anything has been omitted in any items of work on materials usually furnished, which are necessary for the completion of the Electrical Works as outlined herein before, then such must be and are hereby included in this section of the work.

4.2 GENERAL

4.2.1 Codes, Regulations, and Ordinances

4.2.1.1 The electrical item under this contract is to be installed according to the requirements of the latest Philippines Electrical Code, the rules and regulations of the Authority concerned and the requirements of the Power Company. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local Ordinances or Laws governing the installation of electrical work, and all laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.

4.2.2 Plans and Drawings

4.2.2.1 The Contract Drawings, which constitute an integral part of this contract, shall serve as workings drawings. They indicate the general layout of the complete electrical system and show arrangements of feeders, circuits, outlets, switches, control panel boards, service equipment, fixtures, and other works.

4.2.2.2 The Contractor shall check architectural, structural, and plumbing plans to avoid possible installation conflicts. Should drastically changes from original plans be necessary to resolve such conflicts, the Contractor shall notify the Engineer/Architect and shall secure from him written approval and agreement concerning necessary changes and adjustments before altered installation work is started.

4.2.3 Minor Modifications

4.2.3.1 The plans as drawn are based upon architectural plans and details show conditions as accurately as is possible to indicate them in scale. The plans are diagrammatical and do not necessarily show all fittings, etc., necessary to fit the conditions. The locations of lighting fixtures and switches shown on the plans are approximate. The Contractor shall be responsible for the proper location to make them fit with architectural details

4.2.4 Guarantees

4.2.4.1 The Contractor shall guarantee that the electrical system is free from all grounds and all defective workmanship and materials and will remain so for a period of one (1) year from the date of acceptance of the work. Any defects, appearing within the aforesaid period, shall be remedied by the Contractor at his own expense.

4.2.4.2 The Contractor shall indemnify and save harmless the TSU and his duly authorized representative from and against all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor, including all expenses, legal or other, which may be incurred by the TSU in the defense of any claim, action, or suit.

4.2.5 Samples and Drawings

4.2.5.1 The Contractor shall submit to the Engineer/Architect for approval samples of fixtures, conduit, wire, wiring devices, finished plates and of any item as may be required by the Engineer/Architect.

4.2.5.2 Prepare and submit for approval shop drawings or catalogs of equipment appliances and fixtures.

4.3 INSTALLATION REQUIREMENTS

4.3.1 All materials shall be new and shall conform to the standards specified in the Philippine Electrical Codes and others such as IEEE, AIA, IEEA and NEMA, for every case where such standard has been established for the particular type of materials in question.

4.3.2 All materials on all systems shall comply with the following specifications unless specifically accepted, and all materials that were not specified shall be of the best of their respective kind.

4.3.3 Cutting and Fitting

4.3.3.1 Contractor shall do all cutting and fitting required for the installation of the electrical items and coordinate with the work of other trades, in accordance with the drawings and in a manner satisfactory to the Engineer/Architect.

4.3.4 Inserts, Anchor, Etc.

4.3.4.1 Furnish to the proper trades all inserts, anchors or other required items, which are to be built in by them for securing all hangers or other supports of conduit and for anchorages for electrical equipment.

4.3.5 Ground Tests

4.3.5.1 The entire installation shall be free from improper grounds and from short circuits.

4.3.5.2 Ground testing shall be performed and shall meet the standard resistance required by the NFPA, IEEE and PEC.

4.3.6 Insulation Resistance Test

4.3.6.1 The insulation resistance test is used to detect insulation damage or deterioration to help prevent electrical shocks, short circuits, and equipment failure.

4.3.6.2 Insulation Resistance testing shall be performed and shall meet the standard resistance required by the NFPA, IEEE and PEC.

4.3.7 Performance Test

4.3.7.1 It shall be the responsibility of the Contractor to test all systems of the entire electrical installation for proper operational conditions. These conditions shall apply to the power and lighting installations as well as the fire alarm system and motors.

4.4 MATERIALS

4.4.1 Wires and Cables

4.4.1.1 The installation shall be free from improper grounds and short circuits. All wires shall be copper, soft-drawn, and annealed, shall be of 98% conductivity, shall be smooth and fine and of a cylindrical form, and shall be within 1% of the actual size called for.

4.4.1.2 Wires shall be color coded as follows:

Line 1 --- Black Line 2 --- Red Ground --- Green

4.4.1.3 All wires and cables for lighting and power system shall be moisture and heat resistant rubber or thermoplastic insulate. It must be in conformity with the Philippine Electrical Code when used in damp or unit location. Wires shall be stranded for sizes #12 AWG.

4.4.1.4 All wires and cables shall comply with the requirements as to the particular usage and approved brand.

4.4.2 Pipes

4.4.2.1 Wiring shall be done in PVC Pipe for embedded and in RSC or EMT for run exposed; it shall be Schedule 40.

4.4.2.2 No tubing shall be used in any system smaller than ½" electric trade size, nor shall have more than four 90-degree bends in any one run and where necessary pull, boxes shall be provided as directed.

4.4.2.3 No wire shall be pulled into any conduit until the conduit system is complete in all details and in the case of concealed work until all rough plastering or masonry has been completed in every detail.

4.4.2.4 The ends of all conduits shall be tightly plugged to exclude plaster, dust, and moisture while the building is in the process of construction. All conduit ends shall be reamed to remove all burrs.

4.4.3 Junction And Pull Boxes

4.4.3.1 PVC Junction and pull boxes shall be provided as indicated or as required for facilitating and pulling of wire and cables. Pull boxes in finished places shall be located and installed with the permission and to the satisfaction of the contracting officer.

4.5 LIGHTING SYSTEM

4.5.1 Install all new lighting fixtures as specified or at locations shown in plans or as directed by the Engineer/Architect.

- 2 – 18 Watts T8 LED tube light (daylight)
- Troffer Fixture with Louver Aluminum Reflector
- Surface Mounted

• 18 Watts LED Round Panel Light (daylight)
• Recessed Mounted

• 3 Watts LED Ceiling Mounted Emergency Light
• Recessed Mounted

• 9V DC Battery Operated Smoke Detector
• With alarm

• 16" Blade Orbit Fan
• Plastic Blade
• 4-Speed Remote Switch

4.5.2 Wall switches shall be rated at 15 amperes, 250 volts, one way or as required. Switches shall be of quiet and automatic action type, silver contact, feather touch operation, and white.

• Two-gang/Three-gang Switch
• Wide Series with LED
• One way
• 250V, 15A

4.6 POWER AND AIR-CONDITION SYSTEM

4.6.1 Receptacles outlet shall be for flush mounted duplex universal outlet rated at 15 amperes, 250 volts.

• Duplex Universal Outlet with Ground
• Flush mounted
• 250V, 15A

4.6.2 Install all outlets as specified or at locations shown in plans or as directed by the Engineer/Architect.

4.6.3 PB-MED shall be a NEMA 1-type enclosure, recessed-mounted, bolt-on panelboard with eight (8) branches, one (1) spare space, and a center main. Refer to the plans for additional details.

4.6.4 Electric Sub-meter shall be installed at electrical room between the PB-MED and 4th floor DP.

• Analog Electric Sub-meter
• 240V, 1P, 10(60)A

4.6.5 NEMA-3R Enclosure shall be used outdoor for the supply of Split type Air-condition Unit.

• NEMA-3R Enclosure
• With 30AT, 2P, MCCB Bolt-on
• Surface Mounted, Weatherproof

4.7 AUXILIARY SYSTEM

4.7.1 3/4" dia. PVC pipe with G.I. wire inside shall be installed as a conduit for future installation of Category 6 cables.

4.7.2 1-Gang wall mounted CAT6 Data Outlet shall be installed in reference to location shown in the plan.

4.7.3 TV and Data Outlets that are not included in the plan shall be covered with blank plate.

• 1-Gang Wall Mounted CAT6 Data Outlet

• RJ45 Port

• HDMI Outlet
• HDMI Cable (3m)

4.8 CONSUMABLE HARDWARE / FITTINGS

4.8.1 PVC Cement, G.I. wires, brackets, electrical tape, tox screw, and other small value materials needed to execute layouts and termination of electrical works shall be considered as consumable hardware.

4.8.2 Junction box, pullbox, Utility box, adaptor, locknut, coupling, unistrat channel, unistrat strap, full thread round rod, expansion/anchor bolt, bolts, nuts, washer, etc. and other small value materials needed to execute layouts and termination of electrical works shall be considered as Fittings.

SECTION 5 – PLUMBING WORKS

5.1. SCOPE OF WORK

5.1.1. Furnish all materials, labor, tools, equipment, and other facilities required for the complete installation, testing, and operation of the plumbing system. This includes, but is not limited to:

5.1.1.1. Installation of new sanitary waste pipes to be connected to the existing drainage.

5.1.1.2. Installation of new water distribution pipes

5.1.1.3. Installation of new plumbing fixtures, fittings, and accessories.

5.1.1.4. All additional work required to ensure the complete operation of the new plumbing system (sanitary, water supply, and pump systems) for the project. All work must comply with applicable laws of the Republic of the Philippines and local codes and ordinances.

5.1.2. All plumbing work and pipe sizes must adhere to the National Plumbing Code of the Philippines and local requirements and ordinances.

5.1.3. The Contractor must review all architectural, structural, and electrical plans, along with this specification. The Contractor is responsible for investigating all potential interferences and existing site conditions affecting the installation and operation of the new plumbing system.

5.1.4. The drawings detail the pipes, valves, and appliances for the project. Any items not specifically mentioned but necessary for the complete system, in accordance with best plumbing practices and to the satisfaction of the Engineer/Architect, must also be furnished and installed.

5.2. PLUMBING FIXTURES AND ACCESSORIES

5.2.1. All plumbing fixtures and accessories must conform to Philippine standards and meet the following specifications:

5.2.1.1. Stainless steel sink; foot pedal operated (including faucet and drain accessories): Approved type, quality, and brand.

5.3. WASTE AND DRAIN PIPES

5.3.1. Installation

5.3.1.1. All sewer lines shall be pitched 6 mm per 300 mm (1/4" per foot) for soil pipes and no case flatter than 3 mm per 300 mm (1/8" per foot) for waste pipes.

5.3.1.2. Changes in pipe sizes for soil, waste, and drain lines must be made using reducing fittings or reducers. Changes in direction should use forty-five-degree (45º) wyes or long sweep bends, with sanitary tees permitted for vertical stacks. Short quarter bends or elbows may be used where the direction changes from horizontal to vertical, and on the discharge from the water closet.
5.3.2. Traps

5.3.2.1. Each plumbing fixture must have a separate, vented water-sealed trap installed as close to the fixture outlet as possible, but in no case at a distance greater than 600 millimeters. Traps shall be of the same diameter as the waste pipes from the fixtures which they shall serve; all traps shall have a water seal of at least 32 millimeters with a brass thumbscrew clean out at the bottom of the seal.
5.3.3. Vent

5.3.3.1. Vents shall be taken from the crown of the fixtures, except for water closet traps, in which case, the branch line shall be vented below the trap and above all small waste line inlets, so connected as to prevent obstructions. Each vent pipe shall run separately above the fixtures into the adjacent soil pipes, not more than 1.50 meters. If more than this distance, the vent shall run independently through the roof.

5.3.3.2. A vent line shall, wherever practicable, be a direct extension of a soil or waste line.

5.3.3.3. Main vent risers at 4.5 meters or longer shall be connected at the foot with the main water or soil pipes below the lowest vent outlet with a forty-five-degree connection.
5.3.4. Pipes and fittings

5.3.4.1. Waste Pipe – shall be Polyvinyl Chloride (PVC) pipes, Series 1000.

5.3.5. Joints and Connections

5.3.5.1. All joints shall be air and watertight.

5.3.5.2. PVC Pipes and Fittings – socket type with PVC solvent cement, elastomeric rubber O-ring gasket, or as per the Manufacturer's recommendations.

5.3.5.3. Dissimilar Pipes – Use adaptor fittings.

5.4. COLD WATER DISTRIBUTION

5.4.1. Pipes and Fittings

5.4.1.1. Waterline pipes and fittings, including Gate Valves inside the building, shall be Polypropylene Random Copolymer (PPR) PN20 pipes.

5.4.2. Installation

5.4.2.1. The piping shall be extended to all fixtures, outlets, and equipment from the gate valves installed in the branch near the riser.

5.4.2.2. Each fixture shall have a shutoff valve and union to permit isolation and disconnection without affecting the rest of the system, whether indicated on the drawings or not.

5.4.2.3. All pipes shall be cut accurately to measurement and shall be worked into place without springing or facing. Care shall be taken so as not to weaken the structural portions of the building.

5.4.2.4. Changes in sizes shall be made with reducing fittings.

5.4.3. Valves

5.4.3.1. Gate Valves installed inside the building shall be Polypropylene Random Copolymer (PPR). Approved type, quality, and brand.

5.5. MISCELLANEOUS

5.5.1. Cleanout shall be PVC or Brass type, designed to be gas and watertight. They must allow for quick and easy plug removal to provide ample space for cleansing tools.

5.5.2. Cleanout shall be of the same size as the pipe.

5.5.3. The cleanout located inside the building shall be placed on the flooring level and provided with a brass cover. Additionally, use PVC cover for cleanout located outside the building.

5.6. DEFECTIVE WORK

5.6.1. If any defects are found during inspection or testing, the defective work or materials shall be replaced, and the test shall be repeated until satisfactory to the Project-In-Charge.

5.6.2. All repairs to the piping shall be made with new materials at the expense of the Contractor.

5.6.3. Caulking of screwed joints or holes will not be accepted.

5.7. PERFORMANCE TEST

5.7.1. The Contractor is responsible for testing all systems of the entire plumbing installation to ensure proper operational condition. These tests must be conducted in the presence of the Project-in-charge.

KEY PERSONNEL AND EQUIPMENT

The minimum work experience requirements for key personnel are the following:

Key Personnel / Qualification and Experience
Civil Engineer/Architect (Project In-charge)
• With at least 2 years of experience in construction project supervision as a licensed professional.
Registered Electrical Engineer/Master Electrician
• With at least 1 year of experience in construction project supervision as a licensed professional.
Registered Master Plumber/Plumber
• With at least 1 year of experience in construction project supervision as a licensed professional; or
• TESDA NCII Holder with at least 1 year of experience in plumbing installation projects
Safety Officer II
• DOLE accredited construction occupation safety officer
• With at least 1 year of experience as a Safety Officer in construction projects

Foreman
• With at least 3 years of experience as foreman in building construction project.

The minimum major equipment requirements are the following:

Equipment Min. Capacity Min. Quantity
Elf Truck 3-5 cu.m. 1
Welding Machine 300A&600A 1
Angle Grinder 700W 1
Cut-off Machine Up to 8" tube 1

Line Items

Item No.	Product/Service Name	Description	Quantity	UOM	Budget (PHP)
1	Conversion of TSU Hotel nto College of Medicine	Labor and Materials for Conversion of TSU Hotel Rooms 416 and 418 into College of Medicine Temporary Laboratory Rooms (For the complete specifications, please refer to the attached Request for Quotation.)	1	Lot	1,999,541.09

Other Information
The bidders must download the attached documents in the associated component section.
Note: This item is to be acquired as a lot.
Please refer to the Request for Quotation for complete specifications

Created by Tutchie Panlilio

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