



CAMPUS PLANNING, DEVELOPMENT & MAINTENANCE OFFICE
UNIVERSITY OF THE PHILIPPINES MANILA
The Health Sciences Center
P. Faura Street, Ermita, Manila Tel. No. 525-2233 Telefax No. 526-8420



REF. NO. : WD188APP10052015

PROJECT TITLE : **PROPOSED FACULTY ROOM @ NIH**
ROOM 114 GF
National Institute of Health Building
University of the Philippines Manila

SUBJECT : **SCOPE OF WORKS AND SPECIFICATIONS**

Division 1 - General

01000 General Requirements

1. The Contractor shall furnish all materials, equipment, tools, apparatus, appliances, accessories, transportation, labor and supervision required for the complete construction of the subject project, as shown on the drawings and called for in these specifications, ready for use.
2. All Contractors submitting proposal for this project shall first examine the site. All proposals shall take into consideration all such conditions that may affect the work under this contract. The specifications and plans shall form part as one. Anything mentioned on plans and not mentioned on the scope of work and specifications and vice versa shall be properly consulted to the CPDMO Project Architect/Engineer for clarification. Any work or materials not in accordance with the drawings or specifications shall be replaced with new at the Contractor's expense.
3. The Contractor shall coordinate his work with all parties to ensure proper phasing or schedule of works. The Contractor shall engage under him, a registered Engineer or Architect to supervise his work. He shall remain at all times in the construction site.
4. A logbook shall be available at the site. It shall contain the daily activities in the site, including weather condition, delivery, manpower and other matter pertaining to the condition of the project. It will also serve as data for Contractor and the Project Inspector.
5. Identification Card of construction workers and engineer/representative shall be supplied by CPDMO with corresponding fees; it should be worn at all times while inside the building/campus premises. Those without IDs shall not be allowed to enter the premises for security purposes.
6. No alteration or additional work that will result in an additive or deductive cost change from the Contract shall be allowed without the approval of the chancellor.

7. Complete specifications with product sample shall be submitted by the contractor to CPDMO and end-user for evaluation. Inspection of the Project Architect/Engineer in-charge shall be required prior to installation of any item/material on the construction.
8. Regular coordination meeting shall be conducted with CPDMO, Contractor and End-user for proper project monitoring.
9. Existing condition of the work site shall be documented by the contractor and photos shall be taken before commence of work to ensure such status. Any damage on the areas due to the contractor's on-going work shall be refurbished at his expense.
10. The Contractor shall provide a complete copy of "As built plans" of the project/unit concerned which shall include all the civil, architectural, plumbing, electrical and other related layouts in 20" x 30" original sheets. It should be properly drawn indicating all the specifications, layouts, tables and necessary data. An initial layout should be submitted in a A3 sheet for checking and approval of Project Architect/Engineer. Final "As built plans" shall be submitted with soft and hard copies.
11. After completion of all works, the Contractor shall promptly remove from the premises all rubbish, trash, debris, and all superfluous building materials and restore all areas that were damaged as affected by the construction works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user.
12. All materials removed from the unit shall be properly documented prior to turn-over to the End-user for proper safe keeping.

01510 Temporary Facilities

- Provide temporary enclosure/canvass on roof areas upon removal of the roofing sheets for building protection. Such coverings shall be adequate enough to cover all the building facilities throughout the span of the project.
- Charges for the restoration or replacement of any damage facility, equipment, material and the like shall be made on the Contractor due to his negligence in providing suitable temporary covering.
- Provide the appropriate scaffoldings, board ups, safety nets and related items to ensure proper installation of all framing system and protection on the area, at the expense of the Contractor as its basic equipment.

Division 2 – Site Construction

02200 Site Preparation

Mobilization / Demobilization

- This work includes mobilization process, provision for warning signs, including barricades, temporary facilities, temporary fences, warning lights and similar safeguards shall be provided by the Contractor as they are required for protection of his manpower and others during the construction life of this project.

- Demobilization procedure shall include clearing of the affected areas from all rubbish, trash, debris, and all superfluous building materials and restore all areas that were damaged as affected by the works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user.

02220 Site Demolition

- This work shall include demolition/dismantling of all existing structures not necessary on the new features of the rooms but shall be coordinated properly with the Project Architect to ensure the effect and safety of such demolition/dismantling with the adjacent and connecting structures.
- All chipping works shall be done manually and with all the considerations on the existing structures and related layouts.
- Restoration and rehabilitation shall be done according for the improvement of the structures.

02230 Site Clearing

- Clear the area from all obstructions or as affected by the construction works, except those structures indicated on the drawings or designated by the Project Architect/Engineer to be left standing. It shall be properly protected from incidental damage due to construction works by the erection of suitable barriers upon approval of the Project Architect/Engineer.

02290 Site Monitoring

- Site monitoring shall be a must to the contractor for the effective implementation of the project. Any discrepancies on plans and actual site conditions shall be properly coordinated with the Project Architect/Engineer concerned for verification.
- Regular coordination meeting shall be done between the contractor or its representative and the Project Architect/Engineer concerned at CPDMO.

02500 Utility Services

Utility Service/Consumption

- Provision of electric and water meter shall be included in the quotation to be charged to the contractor's overhead. All utility consumption shall be provided with meters to limit the usage of such during working period. Payments of bills shall be made thru the Cashiers Office after the renovation period presenting the statement of account issued by Accounting upon recommendation of the Chief of CPDMO.

Division 6 – Wood

06273 Hanging Cabinets,

Materials

- 3/4" thk. Plywood for main frames of hanging cabinet
- 1/4" thk. Plywood for backing.
- Wood frame solid wood edging.
- Wooden items with PNS 196:2000

- Stainless access. such as Flush type cabinet/ drawer handle, concealed hinges, cabinet lockset, barrel bolt, drawer runner, individual drawer/cabinet lockset.
- All cabinet shall be duco/laminate finish.
- Provide all necessary accessories for complete installation.
- Submit sample for approval.

Application

- Use treated wood/lumber for all fabrication works
- Follow design/layout on plan for all fabrication works
- A receptions/counters/cabinets must have individual locking system. Submit sample for approval of features.
- Confer to CPDMO for the design and features.

Division 8 – Doors and Windows

08100 Doors

Door Restoration / Rehabilitation-D1

Existing Single Panel Door

- Refurbishing of existing single door panel. Replacement of door knob/lock to stainless push and pull handle (front and rear) and lock cylinder (one side cylinder one side knob) stainless steel, paint finished.
- Provide accessories such as door closers and locksets.
- Apply lubricant on all hinges to make them workable.
- Use approved methodology.
- Follow plan for details and location of door(s).

08500 Windows

Casement / Fixed Clear Glass Window – W1

- 2.09m x 2.89m, 6 mm thickness tempered clear casement / fixed glass, with 1.5 mm thickness of aluminum powdered coated frame including accessories.
- Follow existing window layout
- Verify from Project Architect/Engineer and End-user the color scheme to be used for window frames.
- Use approved methodology for window installation.

Window Restoration / Rehabilitation – W2

Scope of Work

- Rehabilitate and restore all existing fixed windows along corridor
- Replace all missing/broken glass panel/ accessories
- Repaint all windows and frames as per existing features
- Use approved methodology for window restoration.

Division 9 – Finishes

09300 Tile

Materials

- 0.60X0.60X2 mm thk. Vinyl tiles
- Provide tile adhesive

- Submit sample and layout of tiles for approval of CPDMO Project Architect/Engineer and End-users.
Application
- Remove Existing tiles.
- Confer to Project Architect layouts and features of tiles.
- Layout tiles after the surfaces have been prepared for the work. Tiles shall be free from lamination, serrated edges, chipped off corners, and other imperfections affecting their quality appearance and strength. Samples of all tiles shall be submitted to the Project Architect/Engineer and End-users for approval as to color, texture and quality

09910 Paints and Coatings

Scope of Works

- This Item shall consist of furnishing all paints, enamels, varnishes and other products to be used including labor, tools and equipment required as shown on the Plans and in accordance with this Specification.

Materials Requirements

- Specified materials shall be delivered to the job site bearing manufacturers' name, brand name, type of paint, analysis showing all important constituents of the paint, color of paint and instructions for thinning.
- Specified item and/or its components shall be handled in such manner as to prevent damage. The same shall be properly protected from harmful elements or damage by other work prior to its incorporation into the Project.
- Store materials in a well ventilated space designated for the storage and mixing of paint. Materials delivered to the site shall be properly stored as to minimize exposure to extremes of temperature.

Quality Assurance

- The University reserves the right to subject material samples to test at his expenses. If such material tests do not meet the specified standards, the cost will be charged to the Contractor.
- Number of coats, where specified, is minimum. Contractor shall apply as many as required to meet specifications for solid, uniform appearance. Where film thickness in mils is specified, spot checks will be made to determine compliance with specified thickness.

Submittals

- Submit 2 samples of each and every color or finish (including all coats). Where the same color or finish is to be applied over different materials, samples of each shall be submitted on different materials, where practical.
- Sample size shall be a minimum of 150 mm x 150 mm (6" x 6").

Protection

- Paint materials shall be properly protected from damage, providing for adequate storage space. Take all necessary precautions to prevent fire, such as keeping oily rags in U. L. approved metal containers or removing from building at the end of each day's work.
- All work fittings, furniture, etc., are to be suitably protected during execution of the work. Splashes on floors, walls, etc. are to be removed during progress of work and on the whole, left clean and perfect upon completion.

- No exterior or exposed painting shall be carried out under adverse weather conditions, such as extremes of temperature, during rain, fog, etc., or if there is excessive dust in the air.

Lead Content and Warning Labels

- The material manufacturer shall state the lead content on the label of any paint product container based on metal percentage of total solids.
- The label of any paint product exceeding 0.5% lead content shall include the following statement: "This paint contains more than 0.55 lead content and shall not be used on surfaces accessible to children."

Repair of Defective Work

- All defective or damaged work shall be restored to initial condition.
- All voids, cracks, nicks, etc., will be repaired with proper patching material and finished flush with surrounding surfaces.
- Marred or damaged shop coats on metal shall be spot-primed with appropriate metal primer.
- Defective or damaged items and/or components, which cannot be repaired or restored to initial conditions, shall be removed and replaced to the satisfaction of the Architect at no additional cost to the end-user.

Cleaning

- Upon completion of the building, the Painting Contractor shall remove all paint spots from all finished work, remove all empty cans and leave the entire premises free from rubbish or other debris caused by his work. He shall remove his equipment from the premises. He shall clean off all glass free from paint spots and smears and shall present the work clean and free from all types of blemishes.

Products

General:

- Materials are specified to establish the standards of grade and quality desired for the work, principal pigments and vehicle types and minimum percentage of solids content by volume.
- The top quality / first class paints.
- The products of Manufacturers not named may be submitted for use provided they are equal in quality and grade to the primers and finishes specified as approved by the Architect. If substitute paint products are desired, a statement shall be submitted to the Architect giving the Manufacturers name, proposed primer and finish for each paint system, analysis for each type of paint, and the use or uses intended. Failure to submit such statements will be cause for rejection.

Surfaces Preparation As Applied To Various Substrates

(a) Wood

Repainting:

- Remove scaling, flaking, blistering, and peeling off paint, wire brushing, scraping, or water blasting. Let dry.
- For glossy areas, sand and dust clean.
- In case of mildew infestation, treat with FUNGICIDAL WASH SOLUTION by swabbing or brushing. To ensure proper treatment, allow either solution to remain in surface for 24 hours. Brush off and rinse with water.

(b) Concrete

Repainting:

- Remove all loose, scaling, flaking and peeling off paint using PAINT AND VARNISH REMOVER by wire brushing, scraping, or water blasting. Let dry.
- For chalking old paint, use CHALK BLOCKER.
- In case of mildew infestation, treat with fungicidal wash solution or bleach solution (1:3, laundry bleach to water, respectively) by swabbing or brushing.
- To ensure proper treatment, allow to stand on surface overnight before washing off residue. Let dry.

Division 12 – Furnishings

Section 12500 Furniture

General

- All casework shall be of modern design and constructed in accordance with the best practices of the wood and computer furniture industry. Construction and design will result in "built-in" installations of computer chairs and tables that have the appearance of flush overlay construction without protuberances.
- Submit samples for approval of design of CPDMO/ End-user

Standard Material Specifications

A. Partition

Modular Wall Partition Panel
Full Fabric Panel Partition (1800HT)
Extruded Aluminum Framing
Clear glass
Powder Coated Finish
Glossy Laminated Finish with Raceway Provision for electrical and telephone

B. Table/ Workstation:

L-Shaped Table
Executive Table

C. Chair:

Executive Chair
Staff Chair

Division 15 – Mechanical

15700 Ventilating and Air-Conditioning System

A. Air-Conditioning System

Scope of Work

- This item shall consist of supply of all air-conditioning ready for use with complete metal flat form and support, complete piping system with accessories including labor, tools, equipment, testing, commissioning, and the satisfactory performance in undertaking the proper installation of the system as shown on the

Plans and in accordance with this Specifications

Equipment Requirements

- 2.0TR (tonner) 25,310 Kj/hr. ceiling cassette type air-conditioning unit. Non inverter

Division 16 - Electrical

Workmanship and Materials

- All works shall be done in accordance with the requirements of the latest edition of the Philippine Electrical Code and National Safety Code. Nothing contained in these specifications or shown on the plan shall conflict with the requirements of these Codes, any discrepancies should be consulted to the Project Inspector / Electrical Engineer.
- All materials and equipment to be used and installed hereunder shall be of the approved type bearing the stamp or approval of the proper authorities concerned. Locally made or constructed materials shall first be approved before installation.
- All works shall be done in workmanlike manner and should present a neat and mechanical appearance when completed.

Plans

- The accompanying drawings shall indicate the general arrangement of the equipments, outlets and other works. When it is necessary to deviate from the arrangement indicated on plans in order to meet the structural conditions, such deviation shall be made at the expense of the Contractor and upon approval from the Project Inspector / Electrical Engineer.
- The outlets and circuit breakers shown on the plan are diagrammatic and approximately correct as to location. Minor changes shall be made through the Contractor at his own expense. The exact location of all outlets and switches shall be determined by the Project Inspector/Electrical Engineer and the same shall be located accordingly. The Contractor shall be responsible for the accurate location of all outlets with respect to doors, partitions, water pipes, cabinets and other facilities.

16050 Basic Electrical Materials and Methods

Conductors and Cables

- Wires and cable for lights and power shall be type THHN/THW 600 volts insulation approved type building wire. No. 3.5 mm THHN shall be used from the panel board to the last outlet, and shall be the smallest wire that should be used, unless otherwise No. 8.0mm wires THNN and larger shall be stranded and be connected to the panel boards and equipment by solder less connectors sufficiently large to enclose all strands of the conductor and be securely fastened. They shall not get loose under vibration and normal strain. Wire splices shall be mechanically and electrically secured and soldered. Joints taps and splices in wires larger than No. 10 AWG shall be made with the use of solder less connectors. They shall be tapped with electrical tape to the thickness of the wire insulation.
- Wires and cables shall be continued from outlet, or outlet to pull boxes without splices. Conductors shall not be drawn in conduits until plaster is dry and the

conduits are cleaned and free of moisture. Conductors of other systems shall not occupy the same conduit and boxes used for light and power.

- Complete supply and installation of wires and cables shall be included in this scope of works.

Conduit System

- Polyvinyl conduit (PVC) pipe, is primarily required for this work. Conduit runs shall be well supported especially on ceiling and slab. All conduits placed on walls and partition shall be embedded, exposed layout will not be allowed. Conduit ends shall be provided with an end bell or adapter with locknut and bushing. Conduit shall enter knockouts squarely. Locknuts and bushing shall be used at termination of conduits in outlets, pull or junction boxes, panels and cabinets. Locknuts shall be screwed tight. Bends and offsets shall be avoided if possible, but when necessary it shall be made with an approved Field bend or pipe / conduit bending machine. The use of pipe tee or vice bending conduits will not be permitted.

Restrictions:

- Supply and installation of all material not shown in the drawing nor mentioned in this specification but necessary for the completion of the construction works shall be included. Coordination with CPDMO Project Inspector should be done for proper installation of all wiring systems.

Wiring Devices

- All wiring devices to be used hereunder shall be new and of approved type. All wall switches shall be top-action quiet-matic type, wide series, and bases to be fire-resistant and non-absorptive material. When more than one switch is indicated in the same location, they shall be mounted in gang under a common plate.
- Convenience outlet shall be duplex-type, universal & flush-type with fire-resistant non-absorptive bases, all duplex 3-wire grounding type with paneled slots receptacles minimum rating of 10 amperes at 250 volts.
- Suitable single pole and heavy-duty switches shall be installed where indicated on the plans. National brands wiring devices are primarily required. Equivalent brand shall be presented for approval. Minor relocations and re-circuiting shall be the liability of the Contractor.
- Following features shall be followed: one gang one way switch; three gang one way switch, duplex flush type convenience outlet universal type.

Boxes and Pull boxes (PVC)

- All PVC conduit boxes and fittings shall be standard or manufactured by reputable electrical manufacturers. Care shall be exercised to line up all outlet boxes. All outlet boxes indicated to be used for lighting fixtures shall be provided with standard nonmetallic covers.
- Horizontal or vertical gang boxes shall be installed as indicated or when required. All conduit boxes, junction boxes, and blank outlet boxes shall be fitted with standard nonmetallic conduit box covers.

16080 Testing

Testing of system

- Complete testing of the system involved in operation and provision of all system apparatus for making test and guarantee for a period of one (1) year after acceptance of the project and shall agree to repair and make good at his expense.

16090 Restoration and Repair

- Restoration and repainting of damaged walls, windows, ceiling and exposed conduits shall be the Contractors liability.

16720 Telephone and Intercommunication Equipment

Telephone System

- Supply and installation of 4 conductor, #22 AWG telephone jacketed wire.
- Supply and installation of flush type one gang telephone modular jack 6P4C with plate cover unit and outlet box.

LAN Cabling System

- Supply and installation of #24 AWG twisted pairs polyethylene insulated hyper grade non-plenum CAT6 UTP cable; Supply and installation information outlet data, 8pin, CAT 6 with single gang face plate and RJ45 snap-in jack keystone style.

NOTE

The foregoing list of item of works does not in anyway limit the responsibility of the Contractor to perform all other works necessary for the completion of the project, **PROPOSED FACULTY ROOM @ NIH, ROOM 114 GF National Institute of Health Building** University of the Philippines Manila.

GUARANTEE

The Contractor shall guarantee all works under this contract to be free from any technical, mechanical and electrical defects and shall replace and repair to the satisfaction of the Project Architect / Engineer and/or to the Chief of CPDMO on any part or portion of the work which may fail within **a period of one (1) year after the final acceptance of the system** provided such failure is due to defects in the material or workmanship.

COMPLETION PERIOD

The Contractor is given **Sixty (60) calendar days** to execute the renovation works including the installation of all system requirements. The Contractor shall coordinate to the CPDMO Inspector and End-users for the schedule of testing of systems and other related job.

Prepared by:


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29 JAN 2016


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CPDMO



U.P. MANILA

BILL OF QUANTITIES - BID PROPOSAL FORM

PROJECT TITLE : **PROPOSED FACULTY ROOM @ NIH**
ROOM 114 GF
NATIONAL INSTITUTE OF HEALTH BUILDING
UNIVERSITY OF THE PHILIPPINES, MANILA

NAME OF BIDDER : _____

ADDRESS : _____

CONTACT NO(S). : _____

TOTAL LUMP SUM BID: _____ **PhP** _____

ITEM	QTY.	UNIT(S)	DESCRIPTION(S)	UNIT COST	TOTAL COST
1.00			GEN. REQ'Ts. / SITEWORKS		
1.10			Mobilization/Demobilization		
	<u>1.00</u>	lot	Mobilization & Demobilization	PhP _____	PhP _____
	<u>1.00</u>	lot	Haul Debris & Excess Materials	_____	_____
			<i>Sub-Direct Cost</i>		PhP _____
1.20			Temporary Facilities		
	<u>1.00</u>	lot	Bunkhouse/Warehouse	PhP _____	_____
			<i>Sub-Direct Cost</i>		PhP _____
1.30			Clearings Works		
	<u>1.00</u>	lot	Demolition/chipping of existing floor & counter tiles, partitions, doors, windows, ceiling utilities, electrical works, lan works plumbing works and other related works.	PhP _____	PhP _____
			<i>Sub-Direct Cost</i>		PhP _____
			Total for General Requirements / Siteworks		PhP _____

2.00 ARCHITECTURAL WORKS AND FINISHING WORKS**2.10 Door(s)**

1.00 lot (D-1) Refurbishing of existing single panel door. Provide lockset push and pull and door closer. PhP _____ PhP _____

Sub-Direct Cost **PhP** _____

2.20 Window(s)

1.00 sets (W-1) Supply and Installation of 6mm. Temp. clear fixed /casement glass w/ 1.5 thk aluminum powdered coated frame including accessories PhP _____ PhP _____

Sub-Direct Cost **PhP** _____

1.00 sets (W-2) rehabilitation of existing windows (along corridor) including the replacement of all related accessories and repainting works PhP _____ PhP _____

Sub-Direct Cost **PhP** _____

2.30 Carpentry Works

7.00 pcs 3/4 thk. Plywood PhP _____ PhP _____
2.00 pcs 1/4 thk. Plywood _____
1.00 lot fastener _____
1.00 lot miscellaneous _____

Material Cost _____

Labor Cost _____ % _____

Sub-Direct Cost **PhP** _____

2.40 Floor Finishes

19.45 sqm Supply & Installation of 0.60x0.60 vinyl tiles PhP _____ PhP _____

Material Cost _____

Labor Cost _____ % _____

Sub-Direct Cost **PhP** _____

2.50 Painting Works

92.00 sqm Interior painting works including walls & ceiling, existing concrete counter & existing cabinet doors PhP _____ PhP _____

Material Cost _____

Labor Cost _____ % _____

Sub-Direct Cost **PhP** _____

2.60 Specialty Works

Wall Partition

2.00 unit(s) Modular Partition Panel PhP _____ PhP _____
 Fabric Partition (1800HT)
 Aluminum Endtrims
 Dim: 1800(H) x 1350(W) x 42(T) mm

Sub-Direct Cost PhP _____

1.00 unit(s) Chief Executive Table PhP _____

1.00 unit(s) Chief Executive Chair _____
 High Back Executive Conference Chair Seat _____

L-Shaped Workstation

4.00 unit(s) Freestanding Table _____

Sub-Direct Cost PhP _____

2.00 unit(s) Modular Partition Panel PhP _____

Fabric Partition
 Aluminum Endtrims

4.00 unit(s) Mobile Pedestal _____

3 Drawers
 Central Locking Mechanism
 Powder Coated Finish
 Dim: 400 x 560 x 650 mm

Sub-Direct Cost PhP _____

4.00 unit(s) Staff Chair PhP _____

Sub-Direct Cost PhP _____

2.70 Restoration Works

1.00 lot Rehabilitation/Restoration of affected areas PhP _____ PhP _____

Sub-Direct Cost PhP _____

Total for Architectural Works and Finishing Works PhP _____

3.00 ELECTRICAL WORKS

3.10 Wires and cables

1.00 roll 3.5 mm² THHN wire PhP _____ PhP _____

3.20 Conduit pipes and accessories

20.00 length 20mm dia PVC pipe PhP _____ PhP _____

5.00 pc(s) 20mm dia PVC elbow _____

30.00 pair(s) 20mm dia PVC male threaded adaptor with locknut _____

3.30 Box

12.00 pc(s) 2" x 4" PVC utility box PhP _____ PhP _____

7.00 pc(s) 4" x 4" PVC utility box _____

3.40 Wiring Devices

7.00 set(s) Universal Grounding duplex receptacle PhP _____ PhP _____

1.00 set(s) Three gang one way switch complete with plate cover _____

3.50 Miscellaneous

<u>2.00</u>	roll(s)	Big electrical tape	PhP	_____	PhP	_____
<u>1.00</u>	can	PVC solvent cement		_____		_____
<u>1.00</u>	kg(s)	30AT 2P , 240V circuit breaker in Nema I		_____		_____
<u>1.00</u>	unit(s)	GI wire		_____		_____

Material Cost _____ PhP _____
 Labor Cost @ _____ % _____
 Sub-Direct Cost **PhP** _____

Total for Electrical Works **PhP** _____

4.00 LAN CABLING WORKS

<u>60.00</u>	mts	CAT-6, 24 AWG, 4 pairs, twisted pairs	PhP	_____	PhP	_____
		Poly-ethylene insulated hyper grade non-plenum UTP cable				
<u>18.00</u>	length	20mm dia PVC pipe	PhP	_____	PhP	_____
<u>1.00</u>	pc(s)	20mm dia male threaded adaptor with locknut		_____		_____
<u>1.00</u>	pc(s)	20mm dia PVC elbow		_____		_____
<u>5.00</u>	set(s)	Information outlet for data, 8 pin CAT-6 with single gang plate with 45 snap in jack keystone style		_____		_____
<u>10.00</u>	pc(s)	Rj 45 plugs		_____		_____
<u>6.00</u>	pc(s)	2" x 4" PVC utility box PVC	PhP	_____	PhP	_____
<u>5.00</u>	pc(s)	4" x 4" PVC junction box		_____		_____

Material Cost _____ PhP _____
 Labor Cost @ _____ % _____
 Sub-Direct Cost **PhP** _____

Total for Lan Cabling Works **PhP** _____

5.00 MECHANICAL WORKS

5.10	<u>1.00</u>	unit(s)	2.0 HP Wall Mount Split Type ACU	PhP	_____	PhP	_____
			Sub-Direct Cost			PhP	_____

5.20 Installation Cost

	<u>1.00</u>	set	First 10 Feet	PhP	_____	PhP	_____
	<u>1.00</u>	set	Next 26 Feet		_____		_____

Sub-Direct Cost **PhP** _____

Total for Mechanical Works **PhP** _____

SUMMARY

1.00	GEN. REQ'Ts. / SITEWORKS	PhP	_____
2.00	ARCHITECTURAL WORKS AND FINISHING WORKS		_____
3.00	ELECTRICAL WORKS		_____
4.00	LAN CABLING WORKS		_____
5.00	MECHANICAL WORKS		_____

<i>Total Materials and Labor Cost</i>		PhP	_____
Overhead Cost	@ _____ %		_____
Tax	@ 12%		_____
TOTAL PROJECT COST		PhP	_____

PREPARED BY : _____
Signature over Printed Name & position/Designation

_____ Date