

BID BULLETIN NO. 2
For LBP-HOBAC-ITB-CW-20171012-01

PROJECT : **LANDBANK Leadership and Development Center Building Construction**

IMPLEMENTOR : **Procurement Department**

DATE : **November 29, 2017**

This Bid Bulletin is issued to modify, amend or clarify items in the Bid Documents. This shall form an integral part of the Bid Documents.

The modifications, amendments or clarifications are as follows:

- The blueprints (Annexes A, S, E & P) have been revised. Kindly obtain copies of Revised Annexes A, S, E & P from the Procurement Department.
- The Bill of Quantities (Annex B), Section VI (Specifications), Section VII (Drawings), Section VIII (Bill of Quantities) and Checklist of the Bidding Documents (Items 3.e, 8 & 9 of the Technical Component and Item 2 of the Financial Component) have been revised. Please see attached revised Annexes B-1 to B-18 and pages 81, 82, 83, 99, 100 & 101 of the Bidding Documents.
- The Terms of Reference (Annex D) has been added. Please see attached Annexes D-1 to D-5.
- The deadline of submission and the schedule of opening of eligibility/technical and financial documents/proposals for the above project is re-scheduled to **December 7, 11:00 A.M.** at the Procurement Department, 25th Floor, LANDBANK Plaza Building, 1598 M. H. Del Pilar corner Dr. Quintos Streets, Malate, Manila.


ALWIN I. REYES, CSSP
Assistant Vice President
Head, Procurement Department and
HOBAC Secretariat

Section VI. Specifications

Name of Project	Work Completion
LANDBANK Leadership and Development Center Building Construction Revised specifications are found in separate binders [two (2) sets].	Five hundred seventy (570) calendar days after receipt of approved Building Permit or Notice to Proceed, whichever comes later

Conforme:

Name of Bidder

Signature over Printed Name of
Authorized Representative

Position

Section VII. Drawings

Name of Project:

LANDBANK Leadership and Development Center Building Construction

Architectural	Revised A-1 to A-41
Structural	Revised S-1 to S-17
Electrical	Revised E-1 to E-30
Plumbing	Revised P-1 to P-16

Conforme:

Name of Bidder

Signature over Printed Name of
Authorized Representative

Position

Section VIII. Bill of Quantities

Name of Project
LANDBANK Leadership and Development Center Building Construction
NOTE: Breakdown of Civil, Architectural, Electrical and General Requirements per attached Revised Annexes B-1 to B-18.

Conforme:

Name of Bidder

Signature over Printed Name of
Authorized Representative

Position

Checklist of Bidding Documents for Procurement of Infrastructure Projects

Documents should be arranged as per this Checklist. Kindly provide folders or guides, dividers and ear tags with appropriate labels.

The Technical Component (First Envelope) shall contain the following:

1. Duly notarized Secretary's Certificate attesting that the signatory is the duly authorized representative of the prospective bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the bidding, if the prospective bidder is a corporation, partnership, cooperative, or joint venture (sample form No. 7).
2. Duly notarized Omnibus Sworn Statement (sample Form No. 6)
3. Eligibility requirement

- **Legal Document**

3.a PhilGEPS Certificate of Registration (Platinum Membership). All documents enumerated in its Annex A must be updated; or

3.b Class "A" eligibility documents as follows:

- Registration Certificate from SEC, Department of Trade and Industry (DTI) for Sole Proprietorship, or CDA for Cooperatives, or any proof of such registration as stated in the Bidding Documents;
- Valid and current mayor's permit issued by the city or municipality where the principal place of business of the prospective bidder is located; and
- Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR.

- **Technical / Financial Documents**

3.c Statement of the prospective bidder of all its ongoing government and private contract, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid, within the relevant period as provided in the Bidding Documents. The statement shall include all information required in the PBDs prescribed by the GPPB. (sample form – Form

No. 3). This form may no longer be submitted if bidder has no ongoing contract.

- 3.d Statement of the prospective bidder identifying its single largest completed contract similar to the contract to be bid, equivalent to at least fifty percent (50%) of the ABC supported with contract / purchase order, end-user's acceptance or official receipt(s) issued for the contract, within the relevant period as provided in the Bidding Documents. The statement shall include all information required in the PBDs prescribed by the GPPB (sample form – Form No. 4)

- ☐ include all information required in the PBDs prescribed by the GPPB;
- ☐ be supported by the notices of award and/or notices to proceed issued by the owner
- ☐ the statement shall be supported by the Owner's Certificate of Final Acceptance or the Certificate of Completion and, whenever applicable, the Contractors Performance Evaluation Summary (CPES) Final Rating sheets, which must be satisfactory.

- 3.e **The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.**

- 3.f Valid PCAB license with government registration.

- 3.g The prospective bidder's computation for its Net Financial Contracting Capacity (sample form No. 5)

- 3.h Valid joint venture agreement (JVA), in case the joint venture is already in existence. In the absence of a JVA, duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful shall be included in the bid. Failure to enter into a joint venture in the event of a contract award shall be ground for the forfeiture of the bid security. Each partner of the joint venture shall submit the legal eligibility documents. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance.

- 4. Bid security in the prescribed form, amount and validity period;
- 5. Organizational chart for the contract to be bid;
- 6. List of contractor's personnel with their complete qualification and

experience data;

7. List of contractor's equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be;
8. **Revised Section VI – Specifications with conformity of bidder.**
9. **Revised Section VII – Drawings with conformity of bidder;**
10. Post-Qualification Documents – (Non-submission of the following documents during the bidding date shall not be a ground for the disqualification of the bidder):
 - 10.a Business Tax Returns per Revenue Regulations 3-2005 (BIR No. 2550 Q) VAT or Percentage Tax Returns for the last two (2) quarters filed manually or through EFPS;
 - 10.b Income Tax Return for 2016 filed manually or through EFPS;
 - 10.c Manpower schedule;
 - 10.d Construction methods;
 - 10.e Equipment utilization schedule;
 - 10.f Construction safety and health program approved by the Department of Labor and Employment;
 - 10.g PERT/CPM or other acceptable tools of project scheduling;
 - 10.h Construction schedule and S-curve.

The Financial Component (Second Envelope) shall contain the following:

1. Duly filled out Bid Form signed by the bidder's authorized representative (sample form – Form No. 1);
2. **Revised Bill of Quantities with bid prices;**
3. Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid
4. Cash flow by quarter or payment schedule

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
A. CIVIL, ARCHITECTURAL AND ELECTRICAL WORKS					
I. SITE WORKS					
a. Site preparation					
a-1: Demolition of affected existing structures:		1.00	lot		
> Perimeter fence including security steel grilles and gate					
> Sub-structures affected during excavation works					
> Existing CHB fence not removed					
@ squatters area					
@ barangay hall					
@ gate					
@ right side from gate					
@ guard house					
a-2: Cutting/uprooting of trees		1.00	lot		
a-3: Building layout		180.68	l.m		
b. Damp proofing with soil poisoning		1,359.71	sq.m		
c. Earthworks					
c-1: Excavation (204.48 cu.m)		1.00	lot		
c-2: Backfilling & compaction (162.38 cu.m)		1.00	lot		
c-3: Earthfill and site levelling		1.00	lot		
c-4: Gravel bedding		126.83	cu.m		
SUBTOTAL					
II. CONCRETE WORKS					
a. Pile caps (4,000 PSI concrete, 3/4 aggregate, 28 days, 5-6" slump) Ready-mixed Concrete		15.71	cu.m		
> Pile Cap-1					
> Pile Cap-2					
b. Bored piles					
c. Column footings (3,000 PSI concrete, 3/4 aggregate, 28 days, 5-6" slump) Ready-mixed Concrete		1.00	lot		
> F1		2.39	cu.m		
> F2					
d. Footing tie beams (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-Mixed Concrete		48.27	cu.m		
> FTB-1					
> FTB-2					
> FTB-3					
e. Columns (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		124.48	cu.m		
> C-1					
> C-2					
> C-3					
> C-4					
f. Second floor beams (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		89.18	cu.m		
> 2G-1					
> 2G-1A					
> 2G-2					
> 2G-2A					
> 2G-2B					
> 2G-3					
> 2G-3A					
> 2G-3B					
> 2B-1					
> 2B-2					
> 2B-2A					
> 2B-3					
> 2B-3A					
> 2CG-1					
g. Third floor beams/girders (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		88.30	cu.m		
> 3G-1					
> 3G-1A					
> 3G-2					
> 3G-2A					
> 3G-2B					
> 3G-3					
> 3G-3A					
> 3G-3B					
> 3B-1					
> 3B-2					
> 3B-2A					
> 3B-3					
> 3B-3A					
> 3CG-1					
h. Lower roof deck beams/girders (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		84.31	cu.m		

SCOPE OF WORKS		Qty.	Unit		
> RG-1					
> RG-1A					
> RG-2					
> RG-2A					
> RG-2B					
> RG-3					
> RG-3A					
> RG-3B					
> RB-1					
> RB-1A					
> RB-1B					
> RB-2					
> RCG-1					
i. Upper roof deck beams/girders (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		21.60	cu.m		
> URG-1					
> URG-2					
> URG-3					
> URB-1					
> URB-2					
> URB-3					
> URB-4					
j. Slab on fill at ground floor (3,000 PSI concrete, 3/4 aggregate, 28 days, 3-4" slump)		182.94	cu.m		
k. Suspended slab (4,000 PSI concrete, 3/4 aggregate, 28 days,) Ready-mixed Concrete at the following:					
> Second floor		90.54	cu.m		
> Third floor		91.19	cu.m		
> Lower roof deck		65.56	cu.m		
> Upper roof deck		23.32	cu.m		
l. Service stairs fr. ground flr to roof deck (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		23.35	cu.m		
m. Ramp from ground to second floor with zocalo		11.63	cu.m		
n. Service stair (4,000 PSI concrete, 3/8 aggregate, 28 days,) Ready-mixed Concrete		2.90	cu.m		
o. Stiffener column		33.29	cu.m		
p. Block beam		5.96	cu.m		
q. Genset pad		6.18	cu.m		
r. Concrete counters		3.47	cu.m		
Location :					
> Ground Floor	: Male and Female toilet				
> Second Floor	: Male & Female CR at Canteen & Training, PWD CR & Kitchen				
> Third Floor	: Dormitory T&B, Speakers Room T&B and VIP Room T&B				
> Lower Roof Deck	: Male & Female Toilet				
s. Concrete gutter (4,000 PSI concrete, 3/4 aggregate, 28 days, 5-6" slump)		70.50	lm		
t. Wall Footings (3,000 PSI concrete, 3/4 aggregate, 28 days, 5-6" slump)		13.16	cu.m		
> WF-1					
> WF-2					
> WF-3					
u. Overhead water tank pedestal		0.93	cu.m		
v. Decorative column pedestal at ground floor		43.40	sq.m		
w. Concrete Wheel Gutter		1.00	lot		
x. Transformer Pad and Columns (including painting)		4.68	cu.m		
y. Hazardous Waste Pad and Enclosure with 600mm dia. X 1000mm HDPE Drum (including painting)		1.00	lot		
(pedestal, footing & pad - 0.32cu.m)					
SUBTOTAL					
III. MASONRY WORKS					
a. 6" CHB wall with rebars (Load Bearing CHB)		1,862.95	sq.m		
b. 4" CHB wall with rebars		1,054.37	sq.m		
c. Plain cement plastering on interior & exterior CHB walls		5,834.64	sq.m		
d. Plain cement plastering with groove on columns		345.10	sq.m		
e. Floor topping using dry pack method prior to installation of floor tiles (50mm thk)		1,666.03	sq.m		
f. Floor topping prior to waterproofing		830.21	sq.m		
g. Concrete moulding at the following:					
> At gutter		70.50	lm		
> At columns		85.60	lm		
> At the lower portion of the canopy parapet		86.22	lm		
> At the upper portion of the canopy parapet		85.81	lm		
h. Concrete baluster		1.00	lot		
SUBTOTAL					
IV. FINISHING CARPENTRY WORKS					
a. Foldable wall partition (Variwall operable wall systems sound proof or approved equal)		50.53	lm		
Location: Training Rooms at Second Floor					

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 LOCATION : Cabildo Street, Intramuros, Manila
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SCOPE OF WORKS		Qty.	Unit		
Specifications: Series: SPACEMASTER 750 series - STC 48 Panel Trim: IMPORTED Architectural Grade Aluminum Alloy 6063-T6 Panel Construction: 12mm MDF or 12mm Gypsum Board, GA Steel sheet, Bitumen Damping sheet Acoustical Infill: Rockwool 60kg/m ³ @ 50mm thk Acoustical Seals: Retractable Upper and Floor seals with magnetic vertical seals, Fixed sweep seals Seal Mechanism: Single action spring loaded cam and spindle with compensating pressure Railtrack: Variwall Track 900 series (Imported Architectural Grade Aluminum Alloy 6063 T-6) Panel Carrier: Variwall Carrier 900 (Imported Precision Bearings w/ Derlin Tires) Trail Panel: Telescopic lever closure operated by heavy duty linear gear Acoustic Class: STC 48 (ASTM E90, ASTM E557) INSUL TESTED; Sound Barrier included Panel Finish: Nylux Wood Veneer or Solid Color Laminates					
b. PVC Vinyl Baseboard > At second floor: training rooms, canteen washing area & dining area, admin office, utility room, hallway & lounge including columns > At third floor: dormitories, VIP & speaker rooms, hallway, e-library & linen room > At lower roof deck: lounge & locker		724.60	l.m.		
c. Base & Hanging Cabinets 3/4" thk marine plywood with high pressure laminates machine pressed (color: front - dark walnut/ back - plain off-white) with 2" pvc edging black with soft close hinges Base Cabinets: > At ground floor: near fire exit > At second floor: canteen, training room, kitchen & preparation area > At third floor: dormitories, VIP & speaker rooms > At lower roof deck: near electrical room Hanging Cabinets: > At second floor: utility room, kitchen & preparation area > At third floor: equipment & linen room		66.03	l.m.		
d. Built-in cabinets at dormitory > At dormitory for 10pax > At VIP room > At Speakers room		14.00	sets		
e. Double wall fiber cement board drywall partition for installation of wall paper > At second floor: training room > At third floor: dormitories, VIP & speaker rooms		166.05	l.m.		
f. Hanging shelves at slop sink for the following: > At ground floor: near fire exit > At second floor: training room > At third floor: dormitories		7.00	l.m.		
SUBTOTAL					
V. FINISHES					
a. Floor Finishes a-1: 900mm x 900mm Tavertine Flooring (FF-1) (Note: use heavy duty tile adhesive) Color: Luna Yellow Location: > Ground Floor : Reception area > Second Floor : Hallway & Lounge > Third Floor : Hallway & Area near stairs > Lower Roof Deck : Lounge		284.02	sq.m		
a-2: 600mm x 600mm Granite Stone (boundary for 900mm x 900mm) (Note: use heavy duty tile adhesive) Color: MARIWASA "Bismarck Brown" Location: > Ground Floor : Reception area > Second Floor : Hallway & Lounge > Third Floor : Hallway & Area near stairs > Lower Roof Deck : Lounge		144.79	sq.m		
a-3: 500mm x 500mm Carpet Tiles-Nylon (FF-2) Note: provide aluminum threshold at termination Color: 1. Modemist SQ "GT675-04 SPHERE" Location: > Second Floor : Training room 1 to 9		489.62	sq.m		
a-4: 600mm x 600mm Homogeneous Tiles-Polished (FF-3) (Note: use heavy duty tile adhesive) Color: Louis Valentino HE601		534.56	sq.m		

SCOPE OF WORKS		Qty.	Unit
Location: > Ground Floor : Records room & Guard House > Second Floor : Canteen & Admin office > Third Floor : E-library, Dormitory rooms, VIP rooms & speaker rooms		159.52	sq.m
a-5: 400mm x 400mm Ceramic Tiles - Matte (FF-4) (Note: use heavy duty tile adhesive) Color: MARIWASA Murillo Beige Location: > Ground Floor : Male and Female toilet > Second Floor : Male, Female and PWD toilet > Third Floor : Dormitory T&B, Speakers room T&B and VIP room T&B > Lower Roof Deck : Male & Female Toilet		35.40	sq.m
a-6: 200mm x 200mm Ceramic Tiles - Matte (FF-5) Color: MARIWASA, Off-White Location: slopsink & base of lavatory counter > Ground Floor : Slop Sink, Male & Female Toilet > Second Floor : Slop Sink, Canteen, Kitchen, PWD, Male & Female Toilet > Third Floor : Slop Sink, T&B at Dormitories, Speakers Room & VIP Room > Lower Roof Deck : Male & Female Toilet		18.12	sq.m
a-7: 600mm x 600mm Homogeneous Tiles-Matte (FF-7) (Note: use heavy duty tile adhesive) Color: Louis Valentino 60FP002 Location: > Ground Floor : Parking area		28.82	sq.m
a-8: 100mm x 100mm Unglazed tiles Color: MARIWASA, Beige Location: > Cistern Tank > Fire Reserve Cistern			
Tank b. Wall Finishes			
b-1: 600mm x 600mm digital wall tiles - matte (WF-1) (Note: use heavy duty tile adhesive) Color: MARIWASA Tatcher beige Location : > Ground Floor : Male and Female toilet > Second Floor : Male, Female, PWD toilet & Canteen CR > Third Floor : Dormitory T&B, Speakers room T&B and VIP room T&B > Lower Roof Deck : Male & Female Toilet		491.79	sq.m
b-2: 400mm x 400mm wall tiles - matte (WF-2) (Note: use heavy duty tile adhesive) Color: MARIWASA Estancia Brown Location : > Ground Floor : Male and Female toilet > Second Floor : Male, Female, PWD toilet & Canteen CR > Third Floor : Dormitory T&B, Speakers room T&B and VIP room T&B > Lower Roof Deck : Male & Female Toilet		129.90	sq.m
b-3: Wall paper finish (color: light gray) with complete accessories (WF-3) Color: CROWN OR DIAMOND, D33 D59 Location : > Second Floor : Training rooms, Canteen washing area, hallway, lounge, admin office and utility room > Third Floor : E-library, hallways, speakers room, vip rooms, dormitory & linen room > Lower Roof Deck : Lounge and locker		2,133.07	sq.m
b-4: High pressure laminate finish (WF-4) Color: Green > Second Floor : Training rooms exterior wall at hallway		85.20	sq.m
b-5: Decostone Panels (WF-5) Color: DECOSTONES Wild Split Ledge Alabastro > Second Floor : Lounge area		35.00	sq.m
b-6: 100mm x 100mm Glazed tiles (WF-5) Color: MARIWASA Beige Location: > Cistern Tank > Fire Reserve Cistern Tank		42.00	sq.m
b-7: 19mm thk granite countertop and splashboard on 80mm thk concrete slab countertop and splashboard (WF-6) Color: China Jet Black Location : > Ground Floor : Male and Female toilet		43.38	sq.m

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 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
> Second Floor : Male & Female CR at Canteen & Training, PWD CR & Kitchen > Third Floor : Dormitory T&B, Speakers Room T&B and VIP Room T&B > Lower Roof Deck : Male & Female Toilet					
c. Ceiling Finishes					
c-1: 3/8" x 2' x 2' laminated gypsum board suspension ceiling, "Orangeskin" by Lamina on G. I. T-runners, baked white enamel paint finish at the lobby and working area (CF-1) Location : > Ground Floor : Reception Area > Second Floor : Canteen, Training Room 1, 2, 3, 4, 5, 6, 7, 8, 9 & Admin Office > Third Floor : Dormitory 1, 2, 3, 4, 5, 6, 7, 8, E-Library & Hallway (Grid D-E) > Lower Roof Deck : Lounge		979.30	sq.m		
c-2: 4.50mm thk cement fiberboard ceiling on 0.40mm thk x 19mm x 25mm furring channel at 0.40m o. c. and 1.00mm thk x 12mm x 38mm carrying channel with 1.20m o. c. bothways with adjustable rod hanger (CF-2) Location : > Ground Floor : Records Room, Male & Female CR including canopy & cove of Reception > Second Floor : Male & Female CR, Utility Room, PWD Toilet, Hallway, cove of Lounge Area & Canteen > Third Floor : Equipment, Linen Room, T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4, VIP Room 1, 2, Hallway & Lounge > Lower Roof Deck : Male & Female CR, Electrical Room, Locker, Network Room Fire Exit (Grid D-E), Storage, Main Stair & cove of Lounge		704.84	sq.m		
c-2: 4.50mm thk Moisture resistant cement fiberboard ceiling on 0.40mm thk x 19mm x 25mm furring channel at 0.40m o. c. and 1.00mm thk x 12mm x 38mm carrying channel with 1.20m o. c. bothways with adjustable rod hanger including cove at CR's (CF-3) > Ground Floor : Male & Female CR > Second Floor : Male & Female CR > Third Floor : T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4, VIP Room 1, 2 > Lower Roof Deck : Male & Female CR		174.93	sq.m		
c-3: Concrete rubbed-out finish under the stairs leading to second floor, third floor and roof deck (CF-4) Location : > Ground Floor : Guard House, Machine/Pump Room, Slop Sink, Fire Exit (Grid D/4-5), Electrical Room, Network Room, Fire Exit (Grid D-E/1-2), Stair (Grid J-M/1-2), Genset & Parking Area > Second Floor : Electrical Room, Network Room, Fire Exit (Grid D/4-5), Fire Exit (Grid D-E/1-2), Veranda (Grid D-L/5-6), Terrace, Hallway to Ramp, Main Stair & Slop Sink (Female & Male CR) > Third Floor : Electrical Room, Network Room, Laundry Area, Fire Exit (Grid D/4-5), Fire Exit (Grid D/1-2) & Main Stair > Lower Roof Deck : Hallway to Roof Deck		962.77	sq.m		
c-4: 2mm thk aluminum composite panel on 0.40mm thk x 19mm x 25mm metal furring channel spaced at 400mm O.C.B.W (two tone color: off-white for sides and light gray for bottom panel) including aluminum trellis (color of the underside of the slab: black) (CF-5) Location : Lounge Area at Second Floor & Third Floor		51.50	sq.m		
c-5: 9" x 10' PVC ceiling panels on 0.40mm x 19mm x 25mm metal furring channel and 1.00mm thk x 12mm x 38mm carrying channel with hanger rods (CF-6) (for the eaves of façade portion) Location : Veranda (Grid D-L/5-6) of Third Floor		45.69	sq.m		
d. Painting Works					
d-1. Semi-gloss latex paint finish for: Color : BOYSEN, Off-White Interior wall > Ground Floor : Electrical Room, Network Room, Fire Exits, Reception Area, Records Room, Stock Room, Machine/Pump Room, Guard House, Inside Perimeter fence > Second Floor : Electrical Room, Wall at Ramp Area, Fire Exits and Wall at Open Below > Third Floor : Electrical Room, Network Room, Equipment Room, Linen Room, Fire Exits, Wall at Open Below, and Walls at Polycarbonate Roofing > Lower Roof Deck : Electrical Room, Network Room, Fire Exits & Storage Exterior walls, parapet, moulding, baluster & all exposed concrete surface Color : BOYSEN, Off-White		2,030.39	sq.m		
d-2: Semi-gloss enamel paint finish on wooden surface		2,222.03	sq.m		

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 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
Color : BOYSEN, Off-White > Hanging shelves		19.32	sq.m		
d-3: Flatwall latex paint finish at the following: Color : BOYSEN, Off-White > Cement fiberboard ceiling > Concrete rubbed-out ceiling		704.84	sq.m		
		962.77	sq.m		
d-4: Quick dry enamel paint on metal surface Color : BOYSEN, Transformer-gray > Steel gate		121.50	sq.m		
> Open drainage steel gratings		57.44	sq.m		
> 38mmØ B.I. Pipe Railing at stairs		38.66	sq.m		
d-5: Automotive lacquer paint finish for steel doors		48.60	sq.m		
d-6: Epoxy paint finish (color: LBP Green) (FF-6) Location :		377.02	sq.m		
> Ground Floor : Fire Exit (Grid D/4-5), Electrical Room, Network Room, Fire Exit (Grid D-E/1-2) & Stair (Grid J-M/1-2)					
> Second Floor : Fire Exit (Grid D/4-5), Electrical Room, Network Room, Fire Exit (Grid D-E/1-2) & Main Stair					
> Third Floor : Fire Exit (Grid D/4-5), Electrical Room, Network Room, Fire Exit (Grid D-E/1-2), Main Stair, Equipment Room & Linen Room					
> Lower Roof Deck : Electrical Room, Network Room, Locker Area, Fire Exit (Grid D-E/1-2), Main Stair, Storage Room, Hallway to Main Stair, Stair to Solar Panel Area & to Overhead Water Tank					
d-7: Traffic Paints > Concrete wheel stopper > PWD and parking number d-		1.00	lot		
8. Elastomeric Paint Firewall Color : BOYSEN, Off-white					
SUBTOTAL					
VI. METAL/STEEL WORKS					
a. Main Entrance Gate 1.20mm thk x 50mm x 150mm B.I. tubular bar on QDE wood finish with 12mm x 12mm square bar at 100mm spacing welded at 25mm thk flat bar (color: black) Lockset & Accessories: Heavy gauge 5mm thk metal strap hinge in durable powder coated finish (color: black) and solid ring with 150mm x 150mm x 5mm iron plate door pull/knocker on powder coated finish (color: black)		7.50	l.m.		
b. 38mmØ Stainless Steel Railing b-1: Ramp for PWD		65.01	l.m.		
b-2: PWD toilet at Second Floor		1.00	l.m.		
c. 25mmØ Stainless Steel Rod Hanger for cleaning paraphernalia at slop sink > Ground Floor > Male CR Training Room at 2nd Floor > Female CR Training Room at 2nd Floor > Dormitory 1, 2, 3 and 4 at 3rd Floor		7.00	l.m.		
d. 38mmØ B.I. Pipe Railing at stairs including brass nosing d-1: Main Stair (Ground Floor to Lower Roof Deck - Grid J-M/Grid 1-2)		36.24	l.m.		
d-2: Stair at Fire Exit (Ground Floor to Lower Roof Deck - Grid D-E/Grid 1-1')		36.24	l.m.		
d-3: Stair at Fire Exit (Ground Floor to Third Floor - Grid D-D/Grid 4-5)		24.16	l.m.		
d-4: Stair going to Solar Panel Area (Lower Roof Deck to Upper Roof Deck))		13.62	l.m.		
d-5: Stair going to Overhead Water Tank (Lower Roof Deck to Upper Roof Deck))		8.83	l.m.		
e. Military Barbed Wire		9.00	l.m.		
f. Brass nosing Main Stair (Ground Floor to Lower Roof Deck - Grid J-M/Grid 1-2) Stair at Fire Exit (Ground Floor to Lower Roof Deck - Grid D-E/Grid 1-1') Stair at Fire Exit (Ground Floor to Third Floor - Grid D-D/Grid 4-5) Stair going to Solar Panel Area (Lower Roof Deck to Upper Roof Deck)) Stair going to Overhead Water Tank (Lower Roof Deck to Upper Roof Deck))		310.78	l.m.		
SUBTOTAL					
VII. STRUCTURAL STEEL WORKS					
a. Trusses inclg base & gusset plates, purlins, sagrods and cross bracing with turn buckle and standard turnbuckles at the following: a-1: Main building		1.00	lot		
a-2: Guard House / Pump / Machine Room		1.00	lot		
a-3: Comfort Room		1.00	lot		
SUBTOTAL					
VIII. ROOFING WORKS					
a. Coloroof Tegula roofing system, hispanica concrete roof tiles (including paint)		325.00	sqm		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
Color : HISPANICA TERRACOTA > at main roof (branch building) > at guard house / pump / machine room > at comfort room					
b. Stainless Steel Pergola with 6.0mm solid polycarbonate sheet Location : Lower Roof Deck		25.65	l.m.		
c. 6.0mm solid polycarbonate Roof at Ramp for PWD including framing		16.08	l.m.		
SUBTOTAL					
IX. DOORS/DOOR JAMBS					
a. D - 2 Fire rated steel flush door & jamb (Dim: 0.90mW x 2.10mH) 3Hr Fire rating Rockwool Lockset & Accessories: - Abloy 4190 lock case w/ 4690 striker plate - Abloy CY028C single cylinder - Yale ball-bearing type hinges 3-1/2" x 3-1/2" - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : Records Room at Ground Floor		1.00	set		
b. D - 5 9.00 sets 6mm THK marine plywood core flush door including painting (Dim: 0.80mW x 2.10mH) Lockset & Accessories: - Schlage A 40 series cylinder type (orbit 626) - Stanley loose-pin type hinges 3-1/2" X 3-1/2" - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : > Ground Floor: Guard House & Stock Room > Second Floor: Kitchen Area, Utility Room & Admin Office > Third Floor : Equipment Room & Linen Room > Lower Roof Deck : Locker Area & Storage Location : Storage Rooms		34.00	sets		
c. D - 6 6mm THK marine plywood core flush door with high pressure laminated machine pressed with 25mm aluminum trim (color: dark walnut) (Dim: 0.80mW x 2.10mH) Lockset & Accessories: - Schlage A 40 series cylinder type (orbit 626) - Stanley loose-pin type hinges 3-1/2" X 3-1/2" - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : > Ground Floor: Male & Female Toilet > Second Floor: Male & Female Toilet at Canteen & Training Room > Third Floor : Toilets at Dormitory 1-8, Speaker Room 1-4 & VIP Room 1-2 > Lower Roof Deck : Male & Female Toilet		1.00	set		
d. D - 7 6mm THK marine plywood core flush door with high pressure laminated machine pressed with 25mm aluminum trim (color: dark walnut) (Dim: 1.00mW x 2.10mH) Lockset & Accessories: - Schlage A 40 series cylinder type (orbit 626) - Stanley loose-pin type hinges 3-1/2" X 3-1/2" - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : PWD Toilet at Second Floor		1.00	lot		
e. D - 8 Phenolic core partition boards on a self-supporting compact decorative laminates complete with nylon accessories and lock indicator including partitions & counters Color : Dark Walnut Location : > 2nd Floor Training Room: Male Toilets > 2nd Floor Training Room: Female Toilets > 3rd Floor Dorm 1, 2, 3 & 4 (4 sets) > 3rd Floor Dorm 5, 6, 7 & 8 (4 sets) including slop sink > 3rd Floor Speaker Room 1, 2, 3, 4, VIP 1 & 2 (6 sets) > Lower Roof Deck		3.00	sets		
f. D - 9 25mm THK wooden louvered door with barrel bolt (Dim: 1.00mW x 1.60mH) Location : Slop Sinks at Ground Floor & Second Floor					

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
g. D - 10 Fire rated steel flush door and door jamb (Dim: 1.00mW x 2.10mH) Lockset & Accessories: - Von duprin 22EO-F Fire rated SP 28 - Von duprin 230L lever standard outside trim sp28 - Von duprin 220 cylinder 626 - Yale ball-bearing type hinges 3-1/2" x 3-1/2" - Peep hole - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb, provide door closer & provide peep hole.) Location : Fire Exits at Ground Floor, Second Floor, Third Floor & Lower Roof Deck		9.00	sets		
SUBTOTAL					
ALUMINUM AND GLASS WORKS					
a. D - 1 12mm THK frameless tempered glass panel door with stainless steel door handle and pivot type stainless steel hinge (Dim: 1.80mW x 2.10mH) Location : Main Entrance of GF, 2F & 3F		4.00	sets		
b. D - 3 Single Leaf 44mm THK aluminum flushed type louvered door with GA # 18 door panel & GA #16 single rabbet jamb 45mm x 100mm with 3 pcs 4" x 4" stainless steel bearing hinges (color: transformer gray) complete with accessories (Dim: 0.80mW x 2.10mH) Lockset & Accessories: - Abloy 4190 lock case w/ 4690 striker plate - Abloy CY028C single cylinder - Abloy 16/006 polanta lever handle - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : > Ground Floor : Network Room > Second Floor: Network Room & Electrical Room > Third Floor : Network Room & Electrical Room > Lower Roof Deck : Network Room & Electrical Room		7.00	sets		
c. D - 4 Two-Leaf 44mm THK aluminum flushed type louvered door with GA # 18 door panel & GA #16 single rabbet jamb 45mm x 100mm with 3 pcs 4" x 4" stainless steel bearing hinges (color: transformer gray) complete with accessories (Dim: 1.60mW x 2.10mH) Lockset & Accessories: - Abloy 4190 lock case w/ 4690 striker plate - Abloy CY028C single cylinder - Abloy 16/006 polanta lever handle - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : > Ground Floor: Electrical Room, Genset & Machine/Pump Room > Third Floor : Solar Panel & Laundry Area		4.00	sets		
d. D - 11 Laminated full panel door with 25mm aluminum trim (color: off-white) with single lever door lockset and stainless steel tubular handle. 1/2" thick clear glass side panels on 2" x 4" aluminum panel frames (color: off-white) with opaque/frosted sticker film strips (Dim: 3.60mW x 2.40mH) - Abloy DC 235 closer (Note: Provide 10mm groove around door jamb and provide door closer) Location : Training Rooms at Second Floor		9.00	sets		
e. D - 12 14.00 sets Laminated full panel door with 25mm aluminum trim (color: off-white) with single lever door lockset (Dim: 0.80mW x 2.10mH) - Abloy DC 235 closer (Note: Provide 10mm groove around jamb & provide door closer) Location : Dormitories at Third Floor					
f. D - 13 1.00 set Laminated full panel door with 25mm aluminum trim (color: off-white) with single lever door lockset (Dim: 1.80mW x 2.10mH) - Abloy DC 235 closer (Note: Provide 10mm groove around jamb & provide door closer) Location : E-Library at Third Floor					
g. D - 14 1.00 set 6mm THK ordinary green sliding glass with opaque/frosted sticker film strips on 50mm x 75mm baked powder coated aluminum frame with 50mm x 100mm door jamb (color: transformer gray) 1/2" thick clear glass side panels on 2" x 4" aluminum panel frames (color: off-white) with					

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
opaque/frosted sticker film strips (Dim: 3.70mW x 2.40mH) (Note: Provide 10mm groove around door jamb) Location: Lounge Area at Lower Roof Deck		21.00	sets		
h. W-1 Aluminum powder coated casement window and muntin bars (color: chocolate brown) with 1/2" thick brown tinted glass and aluminum stucco panel (Dim: 1.35mW x 1.20mH) with opaque/frosted sticker film strips (Dim: 3.70mW x 2.40mH) Location: Training Room at Second Floor & Dormitories at Third Floor (façade portion)		12.00	sets		
i. W-2 Aluminum powder coated casement window with 4mm THK brown tinted glass (color: chocolate brown) (Dim: 1.35mW x 1.20mH) Location: Training Room at Second Floor & Dormitories at Third Floor (rear portion)		12.00	sets		
j. W-3 Aluminum powder coated casement window with 4mm THK brown tinted glass (color: chocolate brown) (Dim: 0.70mW x 0.50mH) Location: Comfort Rooms at GF, 2F, 3F & LRD		2.00	sets		
k. W-4 6mm THK brown tinted fixed glass on 50mm x 100mm baked powder coated aluminum frame (color: chocolate brown) (Dim: 0.40mW x 1.10mH) Location: Canteen at Second Floor		2.00	sets	40,000.00	
l. W-5 6mm THK brown tinted fixed glass on 50mm x 100mm baked powder coated aluminum frame (color: chocolate brown) (Dim: 1.90mW x 1.80mH) Location: Second Floor and Third Floor		2.00	sets	40,000.00	
m. W-6 6mm THK brown tinted fixed glass on 50mm x 100mm baked powder coated aluminum frame (color: chocolate brown) (Dim: 2.10mW x 1.80mH) Location: Second Floor and Third Floor		1.00	lot		
n. 6mm THK floating mirror on aluminum frame with 6mm THK marine plywood backing (machine pressed) with 18watts LED backlighting Location:					
> Ground floor CR	2	Dim: 0.8mL x 1.15mH			
> Canteen	1	Dim: 1.261mL x 1.15mH			
> Canteen CR	2	Dim: 0.8mL x 1.15mH			
> 2F PWD	1	Dim: 0.8mL x 1.15mH			
> 2F Female CR	1	Dim: 2.4mL x 1.15mH			
> 2F Male CR	1	Dim: 1.811mL x 1.15mH			
> 3F Dormitory (6pax)	8	Dim: 0.6mL x 1.15mH			
> 3F Dormitory (10pax) vertical	4	Dim: 1.85mL x 1.15mH			
> 3F Dormitory (10pax) horizontal	4	Dim: 1.90mL x 1.15mH			
> 3F Speaker's room 1	1	Dim: 0.95mL x 1.15mH			
> 3F Speaker's room 2	1	Dim: 0.70mL x 1.15mH			
> 3F Speaker's room 3 & 4, VIP room 1 & 2	4	Dim: 0.80mL x 1.15mH			
> LRD CR	2	Dim: 0.80mL x 1.15mH			
SUBTOTAL					
XI. WATERPROOFING WORKS					
a. Bituminous membrane waterproofing at ledges, concrete gutter, CRs and rooftop (WP-1)		1,092.68	sq.m	949.00	
b. Cementitious waterproofing at fire wall (WP-2)		2,020.24	sq.m	500.00	
c. Osmoseal waterproofing @ Cistern Tank (WP-3)		57.75	sq.m.	1,022.32	
SUBTOTAL					
XII. PLUMBING WORKS					
a. Water Supply System					
a-1: Waterlines, complete with fittings and accessories (PPR)		1.00	lot		
a-2: Fire Hose Cabinet Set (Glass panel door, 1" x 1" aluminum trimming with lock and key, with semi-automatic rack, standard fire axe, 1-1/2" x 30m single jacket fire hose, 1-1/2" angle valve, 1-1/2" fog nozzle and rack nipple; including HCFC 123 fire extinguisher with 2-year warranty against defects, capable of fighting Class A, B and C types of fire and BFP approved)		3.00	sets		
a-3: Stainless Steel Overhead Water Tank (Bestank 4200, Capacity=1116gal.)		2.00	units		
a-4: 1.5HP Transfer Pump Including Concrete Base		2.00	units		
a-5: Underground Water Tank		17.65	cu.m.		
> Fire Reserve Cistern Tank					
> Cistern Tank					
b. Sanitary System					
b-1: Sanitary lines incldg fittings and accessories (Hub less Cast Iron Soil Pipe)		1.00	lot		
b-2: Septic tank (three-chambers)		6.72	cu.m		
c. Storm and Drainage System					
c-1: Downspout-75mm-Ø PVC pipes incldg fittings (Moldex, Atlanta or Neltex Series 1000)		15.92	l.m		
c-2: Downspout-100mm Ø PVC pipes incldg fittings (Moldex, Atlanta or Neltex Series 1000)		264.15	l.m		
c-3: Roof Drain-75mm Ø PVC pipes incldg fittings (Moldex, Atlanta or Neltex Series 1000)		71.81	l.m		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
c-4: Catch basin/area drain		21.00	units		
c-5: Man Hole		2.00	units		
c-6: 150mm Ø non-reinforced concrete pipe		69.95	l.m		
c-7: Open Drainage		45.40	l.m		
d. Plumbing Fixtures and Accessories					
d-1: Water closet flush valve type complete with fittings and accessories including flushometer (See Material Specification) Note: Provide hygienic spray (BS2-002)		40.00	sets		
> Ground Floor : Male & Female CR					
> Second Floor : Male & Female CR at Canteen & Training Room, PWD Toilet					
> Third Floor : T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4 & VIP Room 1, 2					
> Lower Roof Deck : Male & Female CR					
d-2: Undermount Counter with fittings and accessories including lavatory faucet (See Material Specifications)		42.00	sets		
> Ground Floor : Male & Female CR					
> Second Floor : Male & Female CR at Canteen & Training Room, PWD Toilet					
> Third Floor : T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4 & VIP Room 1, 2					
> Lower Roof Deck : Male & Female CR					
d-3: Urinal top inlet including fittings and accessories (See Material Specifications)		3.00	sets		
> Second Floor : Male CR at Training Room					
d-4: Stainless steel kitchen sink including faucet complete with fittings and accessories. (see Material specification)		1.00	set		
d-5: Floor drain, 4" x 4" METMA-M222		79.00	sets		
d-6: Dome type roof drain, 3"-Ø METMA Model# 316-55		2.00	sets		
d-7: Dome type roof drain, 4"-Ø METMA Model# 316-56		26.00	sets		
d-8: Wall mounted S/S faucet at comfort rooms & slop sink		7.00	sets		
> Ground Floor : Male & Female CR					
> Second Floor : Male & Female CR at Training Room					
> Third Floor : T&B Dorm 1, 2, 3, 4					
d-9: Tissue holder by Bobrick (See Material Specifications)		40.00	sets		
> Ground Floor : Male & Female CR					
> Second Floor : Male & Female CR at Canteen & Training Room, PWD Toilet					
> Third Floor : T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4 & VIP Room 1, 2					
> Lower Roof Deck : Male & Female CR					
d-10: Soap holder/dish by Bobrick (See Material Specifications)		26.00	sets		
> Ground Floor : Male & Female CR					
> Second Floor : Male & Female CR at Canteen & PWD Toilet					
> Third Floor : T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4, VIP Room 1, 2					
> Lower Roof Deck : Male & Female CR					
d-11: Soap Dispenser by Bobrick (See Material Specifications)		2.00	sets		
> Second Floor : Male & Female CR at Training Rooms					
d-12: Towel Bar by Bobrick (See Material Specification)		26.00	sets		
> Third Floor : T&B Dorm 1, 2, 3, 4, 5, 6, 7, 8, Speaker's Room 1, 2, 3, 4, VIP Room 1, 2					
d-13: Feminine/ Sanitary Napkin Dispenser (See Material Specification)		2.00	sets		
> Second Floor : Female CR at Training Room & PWD Toilet					
d-14: Shower Curtain Rods		6.00	sets		
> Third Floor : Speaker's Room 1, 2, 3, 4 & VIP Room 1, 2					
SUBTOTAL					
XIII. ELECTRICAL WORKS					
@ GROUND FLOOR					
a. PANEL BOARDS					
a-1: FPP		1.00	set		
MAIN: 150 AT/225AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					
BRANCH : 1 – 125AT/225AF, 240V, 3P, BOLT-ON CB					
1 – 30AT/50AF, 240V, 3P, BOLT-ON CB					
a-2: MDP		1.00	set		
MAIN: 1000 AT/1000AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					
BRANCH : 1 – 500AT/1000AF, 240V, 3P, BOLT-ON CB					
1 – 300AT/400AF, 240V, 3P, BOLT-ON CB					
1 – 125AT/225AF, 240V, 3P, BOLT-ON CB					
1 – 60AT/100AF, 240V, 3P, BOLT-ON CB					
6 – 40AT/50AF, 240V, 3P, BOLT-ON CB					
*Note: Provide 3 sets of lugs for line side of main breaker capable of accommodating 3 sets of 3-175 sq mm.					
a-3: LP-1		1.00	set		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabilido Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
MAIN: 40 AT/50AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					
BRANCH : 2 – 20AT/50AF, 240V, 2P, BOLT-ON CB					
10 – 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-4: PP-1		1.00	set		
MAIN: 60 AT/100AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					
BRANCH : 6 – 40AT/50AF, 240V, 2P, BOLT-ON CB					
a-5: 1200AT/1500AF, 240V, 3P, BOLT-N TYPE CB IN NEMA 3R ENCLOSURE		1.00	set		
Note: Provide 3 sets of lugs for line and load side					
a-6: 1000AT/1000AF, 240V, 3P, BOLT-N TYPE CB		1.00	set		
Note: Provide 3 sets of lugs for line and load side					
a-7: 150AT/225AF, 240V, 3P, BOLT-N TYPE CB		1.00	set		
a-8: 500A, 240V, 60hz, 3P automatic change-over switch complete with accessories and enclosure		2.00	set		
a-9: 150A, 240V, 60hz, 3P automatic change-over switch complete with accessories and enclosure		7.00	set		
a-10: ECB, 40AT/50AF, 2P, in NEMA 1 enclosure		4.00	set		
*Note: All Circuit Breaker shall be Square - D					
b. WIRING DEVICES AND ACCESSORIES					
b-1: Single pole switch in one plate cover, National Wide Series		11.00	pcs.		
b-2: Two single pole switch in one plate cover, National Wide Series		6.00	pcs.		
b-3: Three single pole switch in one plate cover, National Wide Series		9.00	pcs.		
b-4: Three way switch in one plate cover, National wide Series		4.00	pcs.		
b-5: Duplex two pronged convenience outlet, National		12.00	pcs.		
b-6: Duplex three pronged convenience outlet, National		11.00	pcs.		
b-7: Telephone plate cover with 2 cat 5e modular jacks, National or Panasonic		2.00	pcs.		
b-8: Blank Cover, National		5.00	pcs.		
c. ROUGHING-INS AND ACCESSORIES					
c-1: 15 mm dia. EMT pipes with fittings (CO, Pumps)		120.00	lengths		
c-2: 20 mm dia IMC pipes and fittings (PP-1, LP-1, LP2-1A, LP2-1B, LP-4)		30.00	lengths		
c-3: 20 mm dia. IMC elbow and connectors		10.00	pcs		
c-4: 25 mm dia IMC pipes and fittings (PP-4 Spare)		2.00	length		
c-5: 40 mm dia. IMC pipe and fittings (LP3-1B, FPP)		52.00	set		
c-6: 40 mm dia. IMC elbow and connectors		2.00	pcs		
c-7: 80 mm dia. IMC pipe and fittings (entrance, LP3-1A, PP-4)		44.00	lengths		
c-8: 80 mm dia. IMC service entrance cap		3.00	set		
c-9: 20 mm dia. PVC pipes with fittings (LO, Alarm)		340.00	lengths		
c-10: 40 mm dia. PVC pipes with fittings (entrance-data)		9.00	lengths		
c-11: 75mm X 75mm Beta Duct PVC Open Slotted Trunking		3.00	lengths		
c-12: Vichnet Wiremesh Cable Tray (CM50-150-3000-5) including accessories		22.00	lengths		
c-13: Vichnet Wiremesh 90 degrees connector (PJ-CSB)		6.00	lengths		
c-14: 15 mm dia. X 3m Copper grounding rod w/ connector		2.00	set		
d. WIRES AND CABLES					
d-1: 1.6 mm dia THHN wire solid (LO)		3,100.00	mtrs		
d-2: 3.5 mm sq. THHN wire stranded (CO, LP-1, PP-1, LP2-1A, LP2-1B, LP-4)		1,200.00	mtrs		
d-3: 8.0 mm sq. THHN wire stranded (LP-1, PP-1, LP2-1A, LP2-1B, LP-4, LP3-1B (g))		320.00	mtrs		
d-4: 14 mm sq. THHN wire stranded (FPP-g))		160.00	mtrs		
d-5: 30 mm sq. THHN wire stranded (entrance-ground, LP3-1A (g), PP-4(g), LP3-1B)		190.00	mtrs		
d-6: 50 mm sq. THHN wire stranded (FPP)		480.00	mtrs		
d-7: 150 mm sq. THHN wire stranded (gutter-mdp, LP3-1A)		850.00	mtrs		
d-8: 175 mm sq. THHN wire stranded (entrance-gutter)		190.00	mtrs		
d-9: 200 mm sq. THHN wire stranded (PP-4)		45.00	mtrs		
d-10: 30 pairs Foam Skinned filled cable, AWG # 22		2.00	mtrs		
d-11: CAT 5e dataline cable (online)		900.00	mtrs		
e. LIGHTING FIXTURES AND ACCESSORIES					
e-1: 2x9 Watts Recessed-type Lighting Fixture with Mirrored Reflector and Louver		4.00	sets		
e-2: 1x18 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		100.00	sets		
e-3: 18 Watts LED Tube (T5)		2.00	sets		
e-4: 1x9 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		4.00	sets		
e-5: 7 Watts, bell-type Pinlight with Ga. #22 steel housing in oven baked white enamel and mirrored aluminum reflector		11.00	sets		
e-6: Eolo 950 (Alu Round) SPITTLER including accessories		39.00	sets		
e-7: LED Portable Emergency Light		12.00	sets		
f. BOXES AND GUTTERS					
f-1: 2" x 4" ga # 18 GI, deep-type utility box		75.00	pcs		
f-2: 4" x 4" ga # 18 GI, deep-type junction box with cover		160.00	pcs		
f-3: 4 11/16" x 4 11/16" ga #18 GI, square box with cover		20.00	pcs		
f-4: 30" x 30" x 15" ga # 16 pull box with cover (entrance)		10.00	pcs		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
f-5: 16" x 16" x 5" ga # 18 pull box with cover (Fire Pump)		10.00	pcs		
f-6: 1200Amp, BUSBAR GUTTER, 2000x700x500mm, GA # 16 NEMA 3R enclosure, powder coated and with grounding lugs complete with screws, bolt and connectors Line side : 3 sets of 3-175 sq mm and 1-30.0sq mm THHN wire Load Side: 3 sets of 3-150 sq mm and 1-30.0 sq mm THHN wire 3 - 30 sq mm and 1-30.0 sq mm THHN wire		1.00	set		
f-7: 1200Amp, BUSBAR GUTTER, 2000x700x500mm, GA # 16 NEMA 3R enclosure, powder coated and with grounding lugs complete with screws, bolt and connectors Line side : 3 sets of 3-175 sq mm and 1-30.0sq mm THHN wire Load Side: 3 - 8.0 sq mm and 1-3.5 sq mm THHN wire 3 - 8.0 sq mm and 1-3.5 sq mm THHN wire 3 - 8.0 sq mm and 1-3.5 sq mm THHN wire 3 - 8.0 sq mm and 1-3.5 sq mm THHN wire 3 - 150.0 sq mm and 1-30.0 sq mm THHN wire 3 - 30.0 sq mm and 1-8.0 sq mm THHN wire 3 - 8.0 sq mm and 1-3.5 sq mm THHN wire 3 - 200.0 sq mm and 1-30.0 sq mm THHN wire 3 - 50.0 sq mm and 1-14.0 sq mm THHN wire		1.00	set		
f-8: CT Box including 3 sets of Current Transformer (200:5)		1.00	set		
f-9: CT Box including 3 sets of Current Transformer (1000:5)		1.00	set		
f-10: 2000x700x500mm mm, GA # 16, NEMA 3R enclosure, powder coated with grounding lugs complete with screws, bolt and connectors for ECB		1.00	set		
f-11: 2 ft wall mounted, closed type, Data Cabinet (23.62" X 23.62") 19" Standard Rack system (60kg max loading capacity), perforated front door with spring lock, detachable side panel (not vented), 2pcs exhaust fan with cable entry at the top panel 2pcs 6 outlet PDU with 3.0mm cable length (220V, 3 pronged, 10A) black, powder coat finish		1.00	set		
f-12: MTTC Box, NEMA 3R Cabinet with wooden backboard with 2" EMT and entrance cap, 10 pairs IDC terminal with gass tube arrester, 3/8" diam Expansion shield with bolt.		1.00	set		
g. MISCELLANEOUS ELECTRICAL MATERIALS					
g-1: tie wires, electrical and rubber tapes, tux & screws, etc.		1.00	lot		
g-2: Drain Pipe (1" Blue PVC)		1.00	lot		
g-3: Orbit Fan, 16" dia. With 3 rotary switch selection, Standard, 3D or approved equal		4.00	sets		
g-4: Exhaust Fan, ceiling mounted, 8" dia. Standard, 3D or approved equal		4.00	sets		
g-5: Kilowatt-hour meter, 3Phase + ground, 240VAC, 60hz, CT rated		2.00	sets		
@ SECOND FLOOR					
a. PANEL BOARDS					
a-1: LP2-1A MAIN: 40 AT/50AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 2 - 20AT/50AF, 240V, 2P, BOLT-ON CB 14 - 15AT/50AF, 240V, 2P, BOLT-ON CB		1.00	set		
a-2: LP2-1B MAIN: 40 AT/50AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 6 - 20AT/50AF, 240V, 2P, BOLT-ON CB 12 - 15AT/50AF, 240V, 2P, BOLT-ON CB <i>*Note: All Circuit Breaker shall be Square - D</i>		1.00	set		
b. WIRING DEVICES AND ACCESSORIES					
b-1: Single pole switch in one plate cover, National Wide Series		9.00	pcs.		
b-2: Two single pole switch in one plate cover, National Wide Series		44.00	pcs.		
b-3: Three single pole switch in one plate cover, National Wide Series		1.00	pc.		
b-4: Three way switch in one plate cover, National wide Series		7.00	pcs.		
b-5: Duplex two pronged convenience outlet, National		22.00	pcs.		
b-6: Duplex three pronged convenience outlet, National		63.00	pcs.		
b-7: Telephone plate cover with 2 cat 5e modular jacks, National or Panasonic		29.00	pcs.		
b-8: Blank Cover, National		18.00	pcs.		
c. ROUGHING-INS AND ACCESSORIES					
c-1: 15 mm dia. EMT pipes with fittings (CO)		175.00	lengths		
c-2: 20 mm dia IMC pipes and fittings (LP2-1A, LP2-1B)		10.00	lengths		
c-3: 20 mm dia. IMC elbow and connectors		6.00	pcs		
c-4: 20 mm dia. PVC pipes with fittings (LO, Alarm, Data-gf to 2ndf)		650.00	lengths		
c-5: 25 mm dia. PVC pipes with fittings (ground-2nd data)		2.00	lengths		
c-6: 75mm X 75mm Beta Duct PVC Open Slotted Trunking (ground-2nd)		2.00	lengths		
c-7: Vichnet Wiremesh Cable Tray (CM50-150-3000-5) including connectors & accessories		50.00	lengths		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
c-8: Vichnet Wiremesh 90 degrees connector (PJ-CSB)		42.00	pcs		
d. WIRES AND CABLES					
d-1: 1.6 mm dia THHN wire solid (LO)		5,000.00	mtrs		
d-2: 3.5 mm sq. THHN wire stranded (CO, LP2-1A (g), LP2-1B (g))		1,600.00	mtrs		
d-3: 8.0 mm sq. THHN wire stranded (LP2-1A, LP2-1B)		100.00	mtrs		
d-4: CAT 5e dataline cable (online)		2,700.00	mtrs		
e. LIGHTING FIXTURES AND ACCESSORIES					
e-1: 2x9 Watts Recessed-type Lighting Fixture with Mirrorized Reflector and Louver		16.00	sets		
e-2: 1x9 Watts Recessed-type Lighting Fixture with Mirrorized Reflector and Louver		195.00	sets		
e-3: 1x18 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		20.00	sets		
e-4: 18 Watts LED Tube (T5)		5.00	sets		
e-5: 1x9 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		7.00	sets		
e-6: 28 watts T5 Lighting Fixture with aluminum reflector and Prismatic Cover (Hallway)		30.00	sets		
e-7: 7 Watts, bell-type Pinlight with Ga. #22 steel housing in oven baked white enamel and mirrorized aluminum reflector		79.00	sets		
e-8: Eolo 950 (Alu Round) SPITTER including accessories		10.00	sets		
e-9: Downlight round surface including 7w LED Bulb and accessories		10.00	sets		
e-10: LED strip lights		62.00	mtrs		
e-11: LED Portable Emergency Light		23.00	sets		
*Note : Use LED Lights					
f. BOXES AND GUTTERS					
f-1: 2" x 4" ga # 18 GI, deep-type utility box		210.00	pcs		
f-2: 4" x 4" ga # 18 GI, deep-type junction box with cover		400.00	pcs		
f-3: 2 ft wall mounted, closed type, Data Cabinet (23.62" X 23.62")		1.00	set		
19" Standard Rack system (60kg max loading capacity), perforated front door with spring lock, detachable side panel (not vented), 2pcs exhaust fan with cable entry at the top panel, 2pcs 6 outlet PDU with 3.0mm cable length (220V, 3 prong, 10A) black, powder coat finish					
g. MISCELLANEOUS ELECTRICAL MATERIALS					
g-1: tie wires, electrical and rubber tapes, tux & screws, etc.		1.00	lot		
g-2: Drain Pipes		1.00	lot		
g-3: Orbit Fan, 16" dia. With 3 rotary switch selection, Standard, 3D or approved equal		2.00	sets		
g-4: Exhaust Fan, ceiling mounted, 8" dia. Standard, 3D or approved equal		6.00	sets		
@ THIRD FLOOR					
a. PANEL BOARDS					
a-1: PPUPS		1.00	set		
MAIN: 40 AT/50AF, 240V, 2P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 4 - 20AT/50AF, 240V, P, BOLT-ON CB					
a-2: LP3-1A		1.00	set		
MAIN: 300 AT/400AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 1 - 250AT/400AF, 240V, 3P, BOLT-ON CB 1 - 100AT/100AF, 240V, 3P, BOLT-ON CB 2 - 40AT/50AF, 240V, 3P, BOLT-ON CB 2 - 40AT/50AF, 240V, 2P, BOLT-ON CB 1 - 20AT/50AF, 240V, 2P, BOLT-ON CB 1 - 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-3: LP3-1B		1.00	set		
MAIN: 125 AT/225AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 1 - 100AT/100AF, 240V, 3P, BOLT-ON CB 1 - 40AT/50AF, 240V, 3P, BOLT-ON CB 6 - 20AT/50AF, 240V, 2P, BOLT-ON CB 4 - 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-4: LP3-J/LP3-K/LP3-L/LP3-M/LP3-N/LP3-O		6.00	sets		
MAIN: 40 AT/50AF, 240V, 2P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 3 - 20AT/50AF, 240V, 2P, BOLT-ON CB 1 - 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-5: LP3-B/LP3-D/LP3-F/LP3-H		4.00	sets		
MAIN: 60 AT/100AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB BRANCH : 6 - 20AT/50AF, 240V, 2P, BOLT-ON CB 2 - 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-6: LP3-C/LP3-E/LP3-G/LP3-I		4.00	sets		
MAIN: 40 AT/50AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
BRANCH : 4 – 20AT/50AF, 240V, 2P, BOLT-ON CB					
2 – 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-7: MTS, 40 amps, 2PDT, non-fusible MTS		1.00	sets		
a-8: ECB, 40AT/50AF, 2P, in NEMA 1 enclosure		1.00	pcs.		
<i>*Note: All Circuit Breaker shall be Square - D</i>					
b. WIRING DEVICES AND ACCESSORIES					
b-1: Single pole switch in one plate cover, National Wide Series		10.00	pcs.		
b-2: Two single pole switch in one plate cover, National Wide Series		40.00	pcs.		
b-3: Three single pole switch in one plate cover, National Wide Series		19.00	pcs.		
b-4: Three way switch in one plate cover, National wide Series		5.00	pcs.		
b-5: Duplex two pronged convenience outlet, National		33.00	pcs.		
b-6: Duplex three pronged convenience outlet, National		89.00	pcs.		
b-7: Duplex three pronged convenience outlet (GFCI), Meiji		30.00	pcs.		
b-8: Telephone plate cover with 2 cat 5e modular jacks, National or Panasonic		6.00	pcs.		
b-9: Telephone plate cover with 1 cat 5e modular jacks, National or Panasonic (E-Library)		12.00	pcs.		
b-10: Blank Cover, National		10.00	pcs.		
c. ROUGHING-INS AND ACCESSORIES					
c-1: 15 mm dia. EMT pipes with fittings (CO)		200.00	lengths		
c-2: 20 mm dia IMC pipes and fittings (PPUPS, LP3-B-O)		18.00	lengths		
c-3: 40 mm dia IMC pipes and fittings (LP3-1B, Sector 2A and 2B)		54.00	lengths		
c-4: 40 mm dia. IMC elbow and connectors		15.00	pcs		
c-5: 80 mm dia. IMC pipe and fittings (LP3-1A)		6.00	lengths		
c-6: 80 mm dia. IMC elbow and connectors		3.00	pcs		
c-7: 90 mm dia. IMC pipe and fittings (Sector 1A)		22.00	lengths		
c-8: 90 mm dia. IMC elbow and connectors		8.00	pcs		
c-9: 20 mm dia. PVC pipes with fittings (LO)		450.00	lengths		
c-10: 75mm X 75mm Beta Duct PVC Open Slotted Trunking		2.00	lengths		
c-11: Vichnet Wiremesh Cable Tray (CM50-150-3000-5) including accessories		30.00	lengths		
c-12: Vichnet Wiremesh 90 degrees connector (PJ-CSB)		20.00	lengths		
d. WIRES AND CABLES					
d-1: 1.6 mm dia THHN wire solid (LO)		3,700.00	mtrs		
d-2: 3.5 mm sq. THHN wire stranded (CO, PPUPS (g), LP3-B-O (g))		2,000.00	mtrs		
d-3: 8.0 mm sq. THHN wire stranded (PPUPS, LP3-1B (g), Sector 2A and 2B (g), LP3-B-O)		350.00	mtrs		
d-4: 22 mm sq. THHN wire stranded (Sector 2A and 2B)		450.00	mtrs		
d-5: 30 mm sq. THHN wire stranded (LP3-1A (g), Sector 1A (g))		90.00	mtrs		
d-6: 125 mm sq. THHN wire stranded (Sector 1A)		200.00	mtrs		
d-7: 150 mm sq. THHN wire stranded (LP3-1A)		55.00	mtrs		
d-8: CAT 5e dataline cable (online)		1,200.00	mtrs		
e. LIGHTING FIXTURES AND ACCESSORIES					
e-1: 2x9 Watts Recessed-type Lighting Fixture with Mirrorized Reflector and Louver		16.00	sets		
e-2: 1x9 Watts Recessed-type Lighting Fixture with Mirrorized Reflector and Louver		100.00	sets		
e-3: 1x18 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		32.00	sets		
e-4: 18 Watts LED Tube (T5)		22.00	sets		
e-5: 1x9 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		21.00	sets		
e-6: 28 watts T5 Lighting Fixture with aluminum reflector and Prismatic Cover		33.00	sets		
e-7: 7 Watts, bell-type Pinlight with Ga. #22 steel housing in oven baked white enamel and mirrorized aluminum reflector		40.00	sets		
e-8: Eolo 950 (Alu Round) SPITTLER including accessories		14.00	sets		
e-9: LED strip lights		62.00	mtrs		
e-10: LED Portable Emergency Light		33.00	sets		
<i>*Note : Use LED Lights</i>					
f. BOXES AND GUTTERS					
f-1: 2" x 4" ga # 18 GI, deep-type utility box		250.00	pcs		
f-2: 4" x 4" ga # 18 GI, deep-type junction box with cover		300.00	pcs		
f-3: 8" x 8" x 5" ga # 18 pull box with cover		7.00	pcs		
f-4: 16" x 16" x 5" ga # 18 pull box with cover		7.00	pcs		
f-5: 2 ft wall mounted, closed type, Data Cabinet (23.62" X 23.62")		1.00	set		
19" Standard Rack system (60kg max loading capacity), perforated front door with spring lock, detachable side panel (not vented), 2pcs exhaust fan with cable entry at the top panel					
2pcs 6 outlet PDU with 3.0mm cable length (220V, 3 prong, 10A)					
black, powder coat finish					
g. MISCELLANEOUS ELECTRICAL MATERIALS					
g-1: tie wires, electrical and rubber tapes, tux & screws, etc.		1.00	lot		
g-2: Drain Pipes		1.00	lot		
g-3: Orbit Fan, 16" dia. With 3 rotary switch selection,		3.00	sets		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
Standard, 3D or approved equal					
g-4: Exhaust Fan, ceiling mounted, 8" dia. Standard, 3D or approved equal		30.00	sets		
g-5: Water Heater, National		28.00	sets		
@ LOWER and UPPER ROOF DECK					
a. PANEL BOARDS					
a-1: LP4		1.00	sets		
MAIN: 40 AT/50AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					
BRANCH: 1 – 20AT/50AF, 240V, 2P, BOLT-ON CB					
5 – 15AT/50AF, 240V, 2P, BOLT-ON CB					
a-2: PANEL: PP4		1.00	sets		
MAIN: 500 AT/1000AF, 240V, 3P, BOLT-ON, INDUSTRIAL TYPE CB					
BRANCH: 4 – 250AT/500AF, 240V, 3P, BOLT-ON CB					
2 – 40AT/50AF, 240V, 2P, BOLT-ON CB					
4 – 15AT/50AF, 240V, 2P, BOLT-ON CB					
<i>*Note: All Circuit Breaker shall be Square - D</i>					
b. WIRING DEVICES AND ACCESSORIES					
b-1: Single pole switch in one plate cover, National Wide Series		3.00	pcs.		
b-2: Two single pole switch in one plate cover, National Wide Series		7.00	pcs.		
b-3: Three single pole switch in one plate cover, National Wide Series		2.00	pcs.		
b-4: Three way switch in one plate cover, National wide Series		2.00	pcs.		
b-5: Duplex two pronged convenience outlet, National		6.00	pcs.		
b-6: Duplex three pronged convenience outlet, National		12.00	pcs.		
b-7: Telephone plate cover with 2 cat 5e modular jacks, National or Panasonic		2.00	pcs.		
b-8: Blank Cover, National		5.00	pcs.		
c. ROUGHING-INS AND ACCESSORIES					
c-1: 15 mm dia. EMT pipes with fittings (CO, FCU)		70.00	lengths		
c-2: 20 mm dia. EMT pipes with fittings (PP4 spare)		2.00	lengths		
c-3: 40 mm dia EMT pipes and fittings (ACCU)		62.00	lengths		
c-4: 20 mm dia. IMC pipe and fittings (LP 4)		20.00	lengths		
c-5: 20 mm dia. IMC elbow and connectors		3.00	pcs		
c-6: 80 mm dia. IMC pipe and fittings (PP 4)		20.00	lengths		
c-7: 80 mm dia. IMC elbow and connectors		3.00	pcs		
c-8: 20 mm dia. PVC pipes with fittings (LO)		105.00	lengths		
c-9: 25 mm dia. PVC pipes with fittings		2.00	lengths		
d. WIRES AND CABLES					
d-1: 1.6 mm dia THHN wire solid (LO)		800.00	mtrs		
d-2: 3.5 mm sq. THHN wire stranded (CO, FCU, LP4 (g))		820.00	mtrs		
d-3: 8.0 mm sq. THHN wire stranded (LP4)		70.00	mtrs		
d-4: 14 mm sq. THHN wire stranded (ACU (g))		200.00	mtrs		
d-5: 30 mm sq. THHN wire stranded (PP4 (g))		24.00	mtrs		
d-6: 38 mm sq. THHN wire stranded (ACU)		600.00	mtrs		
d-7: 200 mm sq. THHN wire stranded (PP4)		70.00	mtrs		
d-8: CAT 5e dataline cable (online)		100.00	mtrs		
e. LIGHTING FIXTURES AND ACCESSORIES					
e-1: 2x9 Watts Recessed-type Lighting Fixture with Mirrorized Reflector and Louver		9.00	sets		
e-2: 1x18 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		11.00	sets		
e-3: 18 Watts LED Tube (T5)		2.00	sets		
e-4: 1x9 Watts Lighting Fixture with 3.0mm parabolic moulded acrylic diffuser		5.00	sets		
e-5: 7 Watts, bell-type Pinlight with Ga. #22 steel housing in oven baked white enamel and mirrorized aluminum reflector		17.00	sets		
e-6: Eolo 950 (Alu Round) SPITTLER including accessories		7.00	sets		
e-7: LED Portable Emergency Light		6.00	sets		
f. BOXES AND GUTTERS					
f-1: 2" x 4" ga # 18 GI, deep-type utility box		60.00	pcs		
f-2: 4" x 4" ga # 18 GI, deep-type junction box with cover		75.00	pcs		
f-3: 8" x 8" x 5" ga # 18 pull box with cover		8.00	pcs		
g. MISCELLANEOUS ELECTRICAL MATERIALS					
g-1: tie wires, electrical and rubber tapes, tux & screws, etc.		1.00	lot		
g-2: Drain Pipes		1.00	lot		
g-3: Orbit Fan, 16" dia. With 3 rotary switch selection, Standard, 3D or approved equal		2.00	sets		
g-4: Exhaust Fan, ceiling mounted, 8" dia. Standard, 3D or approved equal		3.00	sets		
SUBTOTAL					

XIV. SPRINKLER SYSTEM

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS	Qty.	Unit		
DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF AUTOMATIC FIRE SPRINKLER SYSTEM				
a. B.I. PIPES SCH. 40, Pacific Brand				
a-1: 150mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	11.00	lengths		
a-2: 100mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	13.00	lengths		
a-3: 80mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	6.00	lengths		
a-4: 65mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	4.00	lengths		
a-5: 50mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	21.00	lengths		
a-6: 40mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	32.00	lengths		
a-7: 32mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	42.00	lengths		
a-8: 25mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	143.00	lengths		
a-9: 15mm.Ø x 6.0m. B.I. PIPES SCH.40, Pacific Brand	2.00	lengths		
b. Elbow 90 deg.				
b-1: 150mm.Ø Elbow 90 deg.	7.00	pcs		
b-2: 100mm.Ø Elbow 90 deg.	2.00	pcs		
b-3: 65mm.Ø Elbow 90 deg.	1.00	pcs		
b-4: 50mm.Ø threaded Elbow 90 deg.	4.00	pcs		
b-5: 32mm.Ø Elbow 90 deg.	2.00	pcs		
b-6: 25mm.Ø Elbow 90 deg.	536.00	pcs		
b-7: 15mm.Ø Elbow 90 deg.	10.00	pcs		
c. Tee Std. Mech Brand				
c-1: 50mm.Ø Tee Std. Mech Brand	36.00	pcs		
c-2: 40mm.Ø Tee Std. Mech Brand	44.00	pcs		
c-3: 25mm.Ø Tee Std. Mech Brand	108.00	pcs		
d. Tee Reducer				
d-1: 150mmx100mm .Ø Tee Reducer	6.00	pcs		
d-2: 100mmx50mm .Ø Tee Reducer	48.00	pcs		
d-3: 100mmx40mm .Ø Tee Reducer	1.00	pcs		
d-4: 80mmx50mm .Ø Tee Reducer	19.00	pcs		
d-5: 80mmx25mm .Ø Tee Reducer	4.00	pcs		
d-6: 65mmx50mm .Ø Tee Reducer	18.00	pcs		
d-7: 65mmx40mm .Ø Tee Reducer	1.00	pcs		
d-8: 50mm.x40 mm Ø Tee Reducer	2.00	pcs		
d-9: 50mm.x32 mm Ø Tee Reducer	3.00	pcs		
d-10: 50mm.x25 mm Ø Tee Reducer	6.00	pcs		
d-11: 40mm.x25mm Ø Tee Reducer	39.00	pcs		
d-12: 32mm.x25mm Ø Tee Reducer	77.00	pcs		
e. Bell/Concentric Reducer				
e-1: 100mmx80mm .Ø Bell/Concentric Reducer	3.00	pcs		
e-2: 80mmx65mm .Ø Bell/Concentric Reducer	3.00	pcs		
e-3: 65mmx50mm .Ø Bell/Concentric Reducer	4.00	pcs		
e-4: 50mmx40mm .Ø Bell/Concentric Reducer	35.00	pcs		
e-5: 50mmx32mm .Ø Bell/Concentric Reducer	30.00	pcs		
e-6: 50mmx25mm .Ø Bell/Concentric Reducer	4.00	pcs		
e-7: 40mmx32mm .Ø Bell/Concentric Reducer	26.00	pcs		
e-8: 40mmx25mm .Ø Bell/Concentric Reducer	38.00	pcs		
e-9: 32mmx25mm .Ø Bell/Concentric Reducer	54.00	pcs		
e-10: 25mmx15mm .Ø Bell/Concentric Reducer	305.00	pcs		
g. 40mm Ø End cap	3.00	pcs		
h. Thread-o-let				
h-1: 50mm Ø Thread-o-let	2.00	pcs		
h-2: 32mm Ø Thread-o-let	3.00	pcs		
i. Union Patente				
i-1: 32mm Ø Union Patente	3.00	pcs		
i-2: 25mm Ø Union Patente	3.00	pcs		
j. Flange w/ Certificate				
j-1: Slip-on Flange 150mm Ø Flange w/ Certificate	21.00	pcs		
j-2: Slip-on Flange 100mm Ø Flange w/ Certificate	26.00	pcs		
j-3: Slip-on Flange 80mm Ø Flange w/ Certificate	10.00	pcs		
j-4: Blind Flange 150mm Ø Flange w/ Certificate	1.00	pcs		
k. Angle Bar, Flat Bar, Loop Hanger, Clevis Hanger, U-Bolt & Grip Anchor				
k-1: Angle Bar (3/16"x1-1/2"x20')	6.00	pcs		
k-2: Angle Bar (2"x2"x1/4")	2.00	pcs		
k-3: Flat Bar (1/4"x1-1/2"x20')	2.00	pcs		
k-4: Threaded Rod (3/8" dia.)	170.00	pcs		
k-5: Loop Hanger 1"	286.00	pcs		
k-6: Loop Hanger 1 1/4"	84.00	pcs		
k-7: Loop Hanger 1 1/2"	64.00	pcs		
k-8: Loop Hanger 2"	42.00	pcs		

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS		Qty.	Unit		
k-9: Clevis Hanger 2 1/2"		4.00	pcs		
k-10: Clevis Hanger 3"		6.00	pcs		
k-11: Clevis Hanger 4"		13.00	pcs		
k-12: Clevis Hanger 6"		11.00	pcs		
k-13: U-Bolt 2 1/2"x1/2"		8.00	pcs		
k-14: U-Bolt 3"x1/2"		12.00	pcs		
k-15: U-Bolt 4"x1/2"		26.00	pcs		
k-16: U-Bolt 6"x1/2"		22.00	pcs		
k-17: Grip anchor 3/8in.Ø		510.00	pcs		
I. Miscellaneous (Including painting materials)					
l-1: Welding Rod (6011)		9.00	box		
l-2: Welding Rod (6013)		9.00	box		
l-3: Grinding disc		60.00	pcs		
l-4: Cutting Disc		30.00	pcs		
l-5: Cut off Wheel		4.00	pcs		
l-6: Drill Bit 3/8		19.00	pcs		
l-7: QDE Paint		12.00	gal		
l-8: Primer Paint		12.00	gal		
l-9: Paint Thinner		12.00	liter		
l-10: Paint Brush		65.00	pcs		
l-11: Bolt & Nut 5/8 w/ Washer		376.00	pcs		
l-12: Nut w/ Washer 3/8		492.00	pcs		
l-13: 5/16in. Thick Rubber Gasket		12.00	LM		
l-14: Mortar Sealant		2.00	bag		
l-15: Teflon Tape		1,440.00	pcs		
l-16: Cutting oil		2.00	pails		
m. Sprinkler Heads Assembly					
m-1: Upright Type, Model GL, 5661 Brass Finish, 1/2" NPT, 155F (68C) 5.6 k factor		96.00	pcs		
m-2: Pendant type, Model GL 5651 chrome plated 1/2" NPT, 155F (68C) 5.6K factor, w/ escutcheon plate		190.00	pcs		
m-3: Sidewall Type, 1/2" NPT, 155 F (68 C) 5.6 k Factor, no Escutcheon plate		6.00	pcs		
n. Coupling					
n-1: Rubber Coupling 150mm.Ø (Victaulic Brand)		12.00	pcs		
n-2: Rubber Coupling 60mm.Ø (Victaulic Brand)		6.00	pcs		
o. FIRE DEPARTMENT CONNECTION					
FIRE DEPARTMENT CONNECTION 2 Way		1.00	pcs		
(2pc/s) "GIACOMINI" A90 Brass Female Open Snoots, 65mm, UL/FM Approved					
(2pc/s) Brass Plug And Chain 2-1/2" (65mm)					
(1pc/s) 2-way Brass Rectangular Identification Plate					
p. Fire Pump and Jockey Pump Non UL		1.00	set		
MAIN PUMP DUTY : 500 GPM @ 150 PSI - NAFFCO (60HZ)					
JOCKEY PUMP DUTY : 18 GPM @ 150 PSI					
1E+ 1D+1J - NAFFCO HORIZONTAL END SUCTION TYPE PUMP COUPLED WITH					
DRIVERS (MOTOR + ENGINE) 1 JOCKEY PUMP, COMMON CONTROLLER,					
ENCLOSURE IP 54, AND STANDARD ACCESSORIES (SUCTION & DISCHARGE					
MANIFOLD, VALVES & FITTINGS ARE INCLUDED)					
q. Electrical Works For Supervisory and Fire Pump		1.00	lot		
r. Gate Valve					
r-1: 150mmØ OS & Y Gate Valve, Kennedy Brand, 200 Psi, Flange Type		2.00	pcs		
r-2: 100mmØ OS & Y Gate Valve, Kennedy Brand, 200 Psi, Flange Type		2.00	pcs		
s. Swing Check Valve, Alarm Check Valve, OS & Y Valve & Water Flow Switch					
s-1: 100mmØ Swing Check Valve, Kennedy Brand, 200 Psi, Flange Type		1.00	pc		
s-2: Alarm Check Valve 150 mm, Viking Brand, Flange Type		1.00	pc		
s-3: 150mmØ OS & Y Valve, Kennedy Brand, w/ supervisory 300 Psi		3.00	pcs		
s-4: 150mmØ Water Flow Switch, System Sensor Brand		3.00	pcs		
t. Ball Valve					
t-1: 50Ø Brass Ball Valve, Giacomini Brand		1.00	pcs		
t-2: 32Ø Brass Ball Valve, Giacomini Brand		3.00	pcs		
t-3: 25Ø Brass Ball Valve, Giacomini Brand		3.00	pcs		
u. Pressure Gauge					
u-1: Pressure Gauge, Inside Range: 0-300 Psi, 3 - 1/2" Gauge Dial, Brass 1/4" Connection		3.00	pcs		
v. Sight Glass					
v-1: 25Ø Sight Glass "GEM" Brand 3 pc(s). 831.67 2,495.00		3.00	pcs		
w. ITC					
w-1: Inspector Test Connection 1 Set (s) 2,446.08 2,446.08		1.00	set		
w-2: Test Header		1.00	set		
SUBTOTAL					
a. DIRECT COST FOR "A"					
b. OCM, 6% of a					
c. PROFIT, 6% of a+b					

PROJECT : LANDBANK LEADERSHIP AND DEVELOPMENT CENTER
 LOCATION : Cabildo Street, Intramuros, Manila
 SUBJECT : PROJECT COST
 DATE : 6 April 2017

SCOPE OF WORKS	Qty.	Unit		
d. VAT 12% of a+b+c Less: Input VAT				
TOTAL COST "A"				
B. GENERAL REQUIREMENTS				
a. Mobilization/Demobilization	1.00	lot		
b. Permits and Clearances	1.00	lot		
> Building Permit				
> Occupancy Permit				
> Equipment Permit - Permit to Operate TC, etc				
> ECC Permit				
> MEPFS Permit				
> Locational Clearance				
> CEI Permit - Receipted Only				
> Brgy. Permit				
> ATO Clearance				
> CARI				
> Intramuros Administration Permit				
> Excavation Permit				
c. Temporary Facilities	1.00	lot		
> Site Office for the Contractor				
> Staging Area (utilize existing area)				
> Office Equipments and Supplies				
> Warehouse				
> Staff house				
> Bunkhouse Contractor Workers				
> Temporary Fence - Ga 26 GI Sheet on wooden or G.I. frame (utilize existing fence)				
> Panel Board and electrical works				
d. Temporary Utilities	1.00	lot		
> Temporary Power Consumption				
> Temporary Water Consumption				
> Telecommunication/Internet				
> Tapping Point, Electrical Wirings, Lighting Facilities & Consumables				
e. Billboard	1.00	lot		
> COA Billboard (8' x 8')				
> Project Billboard				
f. Professional Fees	1.00	lot		
> Site Supervision				
> Engineering Control and Coordination				
> Quality Assurance and Control				
g. Safety Requirements	1.00	lot		
> Construction Safety, Health Program and Safety Requirements				
> Inverted Umbrella				
> Safety Signages				
> Health, Safety and Environmental Control Management				
> Personal Protective Equipments - PPE				
h. General Cleaning	1.00	lot		
> Housekeeping Works				
> Waste Management				
> Hauling out of debris				
i. Laboratory, testing and sanitary	1.00	lot		
j. Construction Progress Documentation & Submittals	1.00	lot		
> Shop Drawings, Product Data and Samples				
> As-Built Plans				
SUBTOTAL				
a. DIRECT COST b. VAT 12% of a				
TOTAL COST "B"				
TOTAL PROJECT COST (A+B)				

**TERMS OF REFERENCE
FOR THE SERVICES OF A GENERAL CONTRACTOR FOR THE
PROPOSED LANDBANK LEADERSHIP DEVELOPMENT CENTER
BUILDING CONSTRUCTION PROJECT**

I. QUALIFICATIONS

1. Must be a recognized local engineering construction entity, duly organized under the laws of the Philippines; (Corporation, Partnership and Cooperatives)
2. Must have a Philippine Contractors Accreditation Board (PCAB) License with at least Category "A" and size range of Medium B;
3. At least Sixty percent (60%) of the interest/outstanding capital stocks belongs to citizens of the Philippines;
4. Currently employing experienced and registered/ licensed architects, civil, structural, electrical, mechanical, sanitary, electronics and communication engineers with the Professional Regulation Commission (PRC).
5. With at least ten (10) years minimum experience in general construction services (steel, reinforced concrete, composite steel-concrete, etc.) and 5 years-experience in related or same project.

II. SCOPE OF SERVICES

The contractor shall :

1. Undertake all the necessary works (Architectural, Structural, Electrical, Sanitary) as indicated in the plans, specifications and scope of works prepared by the Project Management and Engineering Department (PMED) for the proposed construction of the **LANDBANK LEADERSHIP and DEVELOPMENT CENTER**;
2. Construct the proposed **LANDBANK LEADERSHIP and DEVELOPMENT CENTER** within 507 c.d.;
3. Facilitate and secure all necessary government permits and clearances required for the implementation and completion of the project.
4. Assign a competent project manager/ engineer at the site on a 24/7 basis until project completion and turn-over
5. Abide by the attached General Conditions of the Project (Annex A).
6. Provide periodic reports on the status/ accomplishments of the project.

**TERMS OF REFERENCE FOR THE SERVICES OF A GENERAL CONTRACTOR FOR THE PROPOSED
LANDBANK LEADERSHIP DEVELOPMENT CENTER BUILDING CONSTRUCTION PROJECT**

7. Attend all meetings as may be required during the implementation stage until the completion of the project.
8. Upon formal request, represent the Bank before any authorized body as expert witness in the resolution of any related investigation and controversies.

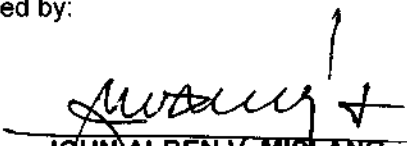
III. DOCUMENTARY REQUIREMENTS

1. List of key personnel assigned for the project (i.e. Project Manager, Project Engineer, Site Architect, Electrical Engineer, Mechanical Engineer) - same must be supported with Curriculum Vitae, Photocopy of PRC ID, PRC Board Certificate, and Employment Certifications);
2. List of at least 5 completed projects by the company/ firm with similar project cost or above, provide a list contact persons, address and contact numbers; and
3. Complete list of projects undertaken during the last 3 years.


IV. MANNER OF PAYMENT

Release of payment / payment schedule shall be in accordance with the provisions of the Implementing Rules and Regulations of RA 9184.

Prepared by:


JOHN ALBEN V. MISLANG
Acting Head, TSU-PMED

Approved by:


ALEXANDER S. LAZARO
Head, PMED

GENERAL CONDITIONS OF THE PROJECT

1. PROJECT OBJECTIVE

- a) To start and finish the project as stated in the contract including punchlisting and rectification of defective works.
- b) To complete the project with good quality/workmanship and in compliance with the Architect's specifications.

2. COMMUNICATION ROUTE

- a) All correspondence of the end-user (*i.e. request for change orders, additional OFMs and other issues and concerns.*) addressed to PMED shall be coursed thru their respective Group Head. Otherwise, PMED shall defer action on the same.
- b) Correspondence/Letters of Contractor to end-user shall be coursed thru to PMED.

3. OFFICE & HOUSING FACILITIES/UTILITIES

- a) The Contractor shall construct temporary facilities (*tempfacil*) for the project (*e.g. barracks/ warehouse with field office and comfort rooms*), as well as the maintenance of the same.
- b) The Contractor shall coordinate with the respective service provider for the temporary electric and water line connections needed for the project.
- c) Monthly electricity and water consumptions during the project implementation shall be for the account of Contractor.

4. SITE RULES & REGULATIONS

- a) Any worker or staff of the contractor or its suppliers who are under the influence of liquor or prohibited drugs are not allowed at the site. Drinking of liquor, gambling and other illegal activities are strictly prohibited at the site.
- b) Wearing of proper uniform, ID and Personal Protective Equipment (PPE) shall be observed during working hours. The Contractor shall be responsible for the safety and welfare of its workers.
- c) Strict compliance/observance to the Occupational Safety and Health Standards of 1989, as amended, particularly "*Rule 1410 (Construction Safety) and Department Order No. 13, s. of 1998*".
- d) LANDBANK is an ISO Certified institution, hence, Guidelines for Environmental Management System (EMS) shall likewise be observed/adopted by both Contractor and End-user (*e.g. Waste segregation and proper disposal*).

5. MATERIALS & EQUIPMENT STORAGE

- a) All materials to be used in the project shall conform to the Architect's specifications.
- b) The Contractor is not allowed to stock pile their construction material (e.g. CHB/sand/ gravel) along the road side.
- c) The Contractor shall be responsible for the safety and security of the construction materials delivered on the site.

6. PERIODIC INSPECTION & CONSTRUCTION MEETING

- a) The Contractor shall prepare an inspection report at least twice a month, or as the need arises, indicating the accomplishment of the project and must be readily available within 1 day upon request.
- b) The Contractor, or his authorized representative as well as the project engineer-on-site shall be made available should construction meetings be requested by LANDBANK PMED in the resolution of matters relative to the project.

7. QUALITY CONTROL

- a) Material samples such as tiles, electrical fixtures, final color for painting, angle bar/plate, etc., must be submitted to Architect's for approval prior to procurement and installation
- b) Material testing such as reinforcing bars to be used, poured concrete, pipes pressure test, flood test for the applied waterproofing system, etc. shall be undertaken and for the account of the Contractor.
- c) All Test Results, Certifications and Warranties must be submitted to PMED by the Contractor, if applicable.
- d) PMED, with the assistance of the end-user's point person/Technical Representative for the project shall ensure that the workmanship is in good quality and in accordance with the Bank's standard specifications.

8. SITE PROBLEMS/SOLUTIONS

- a) Variation/Change Orders (Additional and Deductive Works). All change orders must be supported with justification/s as to the necessity of the subject work/s. The Contractor shall submit quotation for the change order for PMED's evaluation.
- b) Contract time extension (CTE). Request for CTE must be supported with documents (e.g. weather chart/s, etc.) as basis for the evaluation and approval of same.
- c) Hold Orders (HO) & Work Resumption Orders. Request for HO must be properly justified. A Work Resumption Order will be issued only upon resolution of concerns/ issues/matters involved.

**ATTACHMENT TO THE TERMS OF REFERENCE FOR THE SERVICES OF A GENERAL CONTRACTOR FOR
THE PROPOSED LANDBANK LEADERSHIP DEVELOPMENT CENTER BUILDING CONSTRUCTION PROJECT**

- d) All issues concerning the project (*e.g. change order, CTE, HO, etc.*) that requires approval of the Building Committee (BC) shall be immediately endorsed to PMED for evaluation and presentation to the BC. Endorsement must be within the contract period or at least a month prior to the end of contract, for appropriate action. No change orders shall be implemented or HO/CTE shall be issued without prior clearance/approval from the Building Committee.

9. JOINT PUNCHLISTING

- a) Joint punchlisting shall be conducted by LBRDC, PMED, Architect and end-user at 90-95% accomplishment of the project. The agreed punchlisted items are final and shall be rectified/completed by the Contractor within the contract period.
- b) Final inspection shall be conducted by the same group (*LBRDC, PMED, Architect & End-user*). Other punchlists that may arise and not previously included in the final punchlisted items shall be considered part of the warranty.

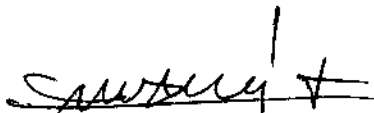
10. TURN-OVER AND ACCEPTANCE OF THE PROJECT

- a) The Contractor shall submit the signed and sealed As-built plans prior to the completion of the project.

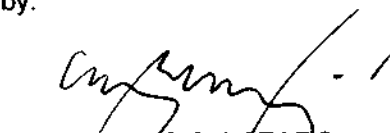
11. OTHER MATTERS

- a) The Contractor shall provide logbook at the site to monitor the day to day activities and project condition, such as but not limited to the following: weather condition, manpower complement, delivery of construction materials, construction activities, equipment utilization, etc.

Prepared by:


JOHN ALBEN V. MISLANG
Acting Head, TSU-PMED

Approved by:


ALEXANDER S. LAZARO
Head, PMED

I shall abide by the provisions of this General Conditions of the Project

Contractor or Authorized Representative