March 04, 2022

Bid Bulletin No. 1

Subject: **CONSTRUCTION OF SEED WAREHOUSE OF DA-PHILRICE BATAC PB INFRA 22-01-01**

This bid bulletin is being issued to reflect the changes in the Bill of Quantities for the Construction of Seed Warehouse of DA- PhilRice Batac PB Infra 22-01-01.

Attached is the Revised Bill of Quantities for complete details in highlighted fonts, for your reference.

Please be guided accordingly.

FIDELA P. BONGAT
Chairperson, BAC for Civil Works

PROJECT	:	**CONSTRUCTION OF SEED WAREHOUSE OF DA-PHILRICE BATAC**
SUBJECT	:	**BILL OF QUANTITIES**
LOCATION	:	**PHILRICE-BATAC, TABUG, CITY OF BATAC, ILOCOS NORTE**

FEATURES AND SCOPE OF WORKS

SITE WORKS

- Site clearing
- Removal of all existing roofing, doors, windows and grills
- Demolition of masonry walls and concrete slab
- Excavation works for additional columns, septic tank, open canal, electrical lines and pedestal for street lights
- Backfill, earth fill, gravel bedding and compaction works

CONCRETE WORKS

- Concrete works for additional columns, beams, tie beam, slab-on-grade, perimeter pavement and service road
- Concreting of concrete jacket for electrical lines and pedestal for street lights

REINFORCING STEEL BARS

- 16mm dia. DRSB for column, column footing, beam, tie beam
- 12mm dia. DRSB for slab-on-grade and additional for column and tie beam
- 10mm dia. DRSB for lateral ties and stirrups

FORMWORKS AND SCAFFOLDINGS

- Form plywood and form lumber for all formworks
- Rental of Scaffolding Materials

MASONRY WORKS

- 6" CHB laying for exterior walls and 4" CHB for interior/partition walls
- Concrete louver block laying
- 2-Side plastering works

TILE WORKS

- Double polished ceramic granite tiles for office area, pantry, meeting room and corridor area
- Black granite tiles for counter top
- Non-skid granite tiles for T&B flooring and outdoor floor finish
- Single polished ceramic granite tiles for T&B wall

PAINTING WORKS

- Flat wall latex paint for ceiling
- Semi-gloss latex paint for walls
- QDE Paint For Steel Works with Epoxy Metal Primer
- Duco finish for cabinet at pantry area

ROOFING AND ROOF FRAMING AND METAL WORKS

- Construction of new roofing and roof framing

- Installation of aluminum cladding panel at porch area
- Fabrication and installation of steel column for extended canopy and porch area
- Installation of steel support for ceiling and lighting fixtures
- Fabrication and installation of steel walls and door

CEILING AND CARPENTRY WORKS

- Gypsum boards for interior ceilings and ficem boards for exterior
- Cabinets for pantry area
- Pre-painted spandrel ceiling for eaves

ELECTRICAL WORKS

- (Note: All conduit fittings and uPVC Pipe shall be " Flexcon", "Neltex", "Poly" or approve equal)
- (Note: All wires shall be "Phelps Dodge" or "PhilFlex" or approve equal)
- (Note: For Switches: Panasonic & Toshiba or approved equal)
- (Note: All breakers shall be "Schneider" or approved equal)
- (Note: All lights shall be "Firefly" or approved equal)
- (Note: All exhaust shall be "Mitsubishi" or approved equal)

MECHANICAL WORKS AND FDAS (FIRE DETECTION AND ALARM SYSTEM)

- Please *see attached technical specs of ACU*
- Fire alarm system and emergency lights

LAN, TELEPHONE, FIBER OPTIC & CCTV

- Note: All LAN cables shall be terminated in T-568B color code (RJ45 module and patch panel), properly tagged

PLUMBING WORKS

- (Note: All PPR Pipe, PVC pipings and fittings shall be "Moldex, Neltex or approve equal)
- Installation of new water lines and sewage lines
- Installation of new fixtures
- Construction of new septic tank and rehabilitation of existing septic tank
- Construction of open canal drainage with catch basin and steel grating cover

DOORS AND WINDOWS

- Fabrication and installation of steel doors in QDE paint finish
- Fabrication and installation of marine flush door in duco paint finish
- Installation of glass door with fixed glass wall and roller blinds
- Installation of windows, window grills and aluminum expanded wire mesh

EQUIPMENT SUPPLY

- 1 unit – 2.5 Tons Capacity Diesel Forklift
- 3 units – Heavy Duty Hydraulic Hand Pallet Truck 3 Tons
- 50 pcs – Heavy Duty Plastic Pallet 4 Tons

(please see attached technical specifications for equipment)

OTHERS

- Professional Fees / Permits / Testing Fees /PPE'S/ Signage
- Technical Personnel
- Temporary Facilities/Perimeter Fence

Project :	**Construction of Seed Warehouse of DA-PhilRice Batac**					
Subject:	**Bill of Quantities**					
Location:	**PhilRice-Batac, Tabug, City of Batac, Ilocos Norte**					
ITEM NO.:	**DESCRIPTION**	**QUANTITY**	**UNIT**	**MATERIAL COST**	**LABOR + EQUIPMENT COST**	**ESTIMATED DIRECT COST**
I.	**SITE WORKS**					
	A. Site Clearing and Cleaning	1.00	lot			
	B. Demolition Works	1.00	lot			
	C. Structural Excavation	± 99.50	cu.m			
	D. Earthfill, Backfill & Compaction	± 509.0	cu.m			
	E. Gravel Bedding	± 170.0	cu.m			
Total - I			**Php**			
II.	**CONCRETE WORKS**					
	A. Column/Column Footing	33.50	cu.m			
	B. Beam, Roof Beam, Tie Beam	32.00	cu.m			
	C. Slab-on-Grade (Building Floor Area)	130.00	cu.m			
	D. Perimeter Pavement (Including Concrete Works for Electrical Lines and Pedestal for Street Lights)	61.00	cu.m			
	E. Service Road	20.00	cu.m			
Total - II			**Php**			
III.	**REINFORCING STEEL BARS**					
	16 mm dia DRSB x 6.0m, 12 mm dia DRSB x 6.0m, 10 mm dia DRSB x .0m, #16 G.I. Tie Wire	17,987.85	kgs			
Total - III			**Php**			
IV.	**FORMWORKS AND SCAFFOLDINGS**					

	Ordinary Plywood 1/4" thk (4ft x 8ft), Form Lumber 2" x 3", Form Lumber 2" x ", Rented Scaffoldings, Consumables (CWN, Tie Wire, etc.)	1.00	lot			
Total - IV			**Php**			
V.	**MASONRY WORKS (Including Plastering)**					
	6" thk CHB, 4" thk CHB, 4" x 6" x12" Concrete Louver Blocks, Portland Cement, 40kgs/bag, Washed Sand, 10mm Dia. x 6meters RSB, Consumables (Tie Wire, Cutting Disk, etc.)	± 1,045.0	sq.m			
Total -V			**Php**			
VI.	**TILE WORKS**					
	60cm x 60cm Double Polished Ceramic Granite Tiles, 60cm x 60cm Non-Skid Ceramic Granite Tiles, Tile adhesive, Consumables (Tile Grout, Tile Spacer, Cutting Disk, etc.)	± 290.0	sq.m.			
Total -VI			**Php**			
VII.	**PAINTING WORKS**					
	A. Concrete/ Masonry Walls					
	Flat Latex #701 Primer, Semi-Gloss Latex Paint Topcoat, Masonry Puty, Consumables (Paint Brush, Paint Roller, Thinner, Rags, Masking Tape, Mesh Tape, etc.)	± 2,090.0	sq.m			
	B. Ceiling Works					
	Flat Latex #701 Primer, Latex Paint Topcoat, Spot Puty, Consumables (Paint Brush, Paint Roller, Thinner, Rags, Masking Tape, Mesh Tape, etc.)	± 220.60	sq.m			
	C. Metal Works					
	Quick Dry enamel, Epoxy Gray Metal Primer Paint, Lacquer/Paint Thinner, Roller Brush, Assorted Paint Brush	1.00	lot			
Total –VII			**Php**			
VIII.	**ROOFING AND ROOF FRAMING AND METAL WORKS**					
	A. MAIN ROOF					

	3" x 3" x 6.0mm Thk Angle Bar, 2" x 2" x 6.0mm Thk Angle Bar, 0.6mm Pre-painted Long Span Rib Type Roofing, 2" x 6" x 1.8mm Thk C-Purlins, 2" x 7" x 1.8mm Thk C-Purlins, 16mm Dia. Round Bar Cross-Bracing, 100mm x 50mm x 3mm Thk C-Cahnnel Bar, 3/4" Turnbuckle, Gauge #24 Pre-Painted Bended Accessories (Ridge Roll & Fascia Cover), Gusset Plate, Bolt, Nut, Washer, Consumables (Tekscrew, Welding Rod, Cutting Disk, etc.)	± 1,363.0	sq.m.			
	2" x 2" x 6.0mm Thk Angle Bar, 1 1/2" x 1 1/2" x 6.0mm Thk Angle Bar, 0.6mm Pre-painted Long Span Rib Type Roofing, 2" x 6" x 1.8mm Thk C-Purlins, 2" x 4" x 1.2mm Thk C-Purlins, 16mm Dia. Round Bar Cross-Bracing, 3/4" Turnbuckle, 4" G.I. Pipe Sch.40, 4mm Thk Metallic Silver ACP 4'x8' , 1" x 1" Anodized Tube, Gauge #24 Pre-Painted Bended Accessories (Wall Flushing, Fascia Cover) and Gauge #18 S/S Gutter, 3/4" Base Plate and 16mm Anchor Bolt with Nut and Washer, Consumables (Tekscrew, Welding Rod, Blind Rivet, Sealant, Cutting Disk, etc.)	1.00	lot			
	2" diam. G.I. Pipe Sch. 20, 1" x 6mm Thk Flat Bar, 2"x2" Pre-galvanized Welded Wire ga. 10, Fabricated Padlock Lockset, Footbolt & Hinges, Consumables (Welding Rod, Cutting Disk, Blind Rivet, etc)	1.00	lot			
Total - VIII			**Php**			
IX.	**CEILING AND CARPENTRY WORKS**					
	A. Ceiling Works					
	12mm Thk Gypsum Board MRM, 4.5mm Thk Ficem Board / Hardiflex, 19mm x 50mm x 5meters x 0.6mm Thk Double Metal Furring,12mm x 38mm x 5meters x 1.0mm Thk Carrying Channel, 25mm x 25mm x 3meters x 0.5mm Thk Wall Angle, Pre-Painted Spandrel Ceiling for Eaves, Consumables (W-Clip, J-Clip, Threaded Rod, Angle Bar Support, Black Screw, etc.)	± 220.60	sq.m.			
	B. Base Cabinet					
	3/4" Marine Plywood, 6" S/S Stick Design Puller, Heavy Duty Self-Closing Hydraulic Hinges, 2" x 2" Good Lumber, Consumables (CWN, Finishing Nail, Wood Glue, etc.)	1.00	lot			

Total - IX			**Php**			
X.	**ELECTRICAL WORKS**					
	A. BOXES, CONDUITS AND FITTINGS:					
	(Note: All conduit fittings and uPVC Pipe shall be " Flexcon", "Neltex", "Poly" or approve equal)					
	Junction Box, Utility Box, 20mm Dia. Spiral Flexible Conduit (100meter/roll), 20mm.dia. EMT Pipe series 1000 for electrical (3meter/length), 32mm.dia. EMT Pipe series 1000 for electrical (3meter/length), 100mm.dia. PVC Pipe series 1000 for electrical (3meter/length), 100mm.dia.EMT Pipe series 1000 for electrical (6meter/length), PVC elbow, Couplings, Consumables (Solvent, GI Wire, Rags, Electrical tape, etc.)	1.00	lot			
	B. WIRES AND CABLES:					
	(Note: All wires shall be "Phelps Dodge" or "PhilFlex" or approve equal)					
	2.0mm.sq. THHN - 2 Copper wire (150meter/box), 3.5mm.sq. THHN - 2 Copper wire (150meter/box), 5.5mm.sq. THHN - 2 Copper wire (150meter/box), 14.0mm.sq. THHN - 2 Copper wire (150meter/box), 30mm.sq. THHN - 2 Copper wire (150meter/coil), 250mm.sq. THHN - 2 Copper wire (150meter/reel)	1.00	lot			
	C. ELECTRICAL DEVICES:					
	(Note: For Switches: Panasonic & Toshiba or approved equal)					
	Convenience Outlet 2 gang, universal with ground, Special Purpose Outlet, Switch 1gang, Switch 2gang, Switch 3gang, Switch 1gang - 3 way, Slim art Series and LED indicator	1.00	lot			
	D. ELECTRICAL FIXTURES:					
	(Note: All breakers shall be "Schneider" or approved equal)					

	Jaman "E" (for electrical), steel manhole cover, 60cm dia. , 1"thickness, Solar Streetlight, 100watts, Monocrystalline, aluminum alloy housing, Specifications Light Output: 100 - 300 Watts, Solar streetlight Pole, RSC pipe, 60AT, 3 phase Circuit breaker, In NEMA 3R enclosure, Exhaust fan, Industrial type, 1hp, single phase, 220volts, Panel board 1 in NEMA 1 enclosure (gauge 16), 400AT Main breaker, 26 branches, 21 branch Single phase, 5 branch (3phase), push lock keys, with grounding busbar	1.00	lot			
	Solar Panel: Monocrystalline Light Source: High Brightness SMD LED Color Temperature: 6000 – 6500 K / Daylight Visual Angle: 120° Degrees Material: Aluminum Housing Battery Type: Lithium Battery Motion Sensor: With Built-in Motion Sensor (Optional Option: Customized steady lighting that slowly reduce brightness from 100% to 0% in 12 hours) Work Time: ≥ 10 Hrs Full Power / ≥ 24 Hrs Half Power Working Temp: Charging: 0°C ~+ 60°C, Discharging: -20°C ~+ 60°C, Storage: 0°C ~+ 45°C Lifetime: > 50,000 hours IP Rating: IP 65					
	E. ELECTRICAL EQUIPMENT					
	(Note: All lights shall be "Firefly" or approved equal)					
	1.2m*.3m LED Panel light, 1.2m T8 LED tube light, Surface Mounted, 8" LED downlight surface mounted, Wall Hung Mirror, 100watts LED Floodlight	1.00	lot			
	F. EXHAUST FAN SYSTEM					
	(Note: All exhaust shall be "Mitsubishi" or approved equal)					

	14"*14" Ceiling Mounted Exhaust Fan, 14"*14" Wall Mounted Exhaust Fan, 6" Exhaust Ducting, Exhaust fan, Industrial type, 1hp, single phase, 220volts, Wall Mounted propeller type exhaust fan, model 30J (30" blade diameter), belt driver, BI materials. Exposy painted color blue finished, complete with 36"*36" square panel housing, motor side fan guard, outlet gravity shutter, belt guard, TEFC type electric motor, 6" Stainless steel wall air vent with insect screen	1.00	lot			
Total -X			**Php**			
XI.	**MECHANICAL WORKS AND FDAS (FIRE DETECTION AND ALARM SYSTEM)**					
	A. ELECTRICAL EQUIPMENT (ACU UNITS)					
	Material for Installation and Labor Cost Included					
	2.5 HP ACU - Inverter, PBS – Yellow Seal Accepted - Split Type - Cooling Capacity: 2.5 HP - EER Rating: 11.7 - Indoor Unit (W x H x D): 1050 x 250 x 320 mm - Outdoor Unit (W x H x D): 780 x 290 x 550 mm - Net Weight: 53 kg - Color: White	1.00	lot			
	30AT, ACU Breaker, 3phase, industrial type, MCCB bolt on type breaker, in NEMA 3R enclosure, gauge 16					
	B. FIRE ALARM SYSTEM AND EMERGENCY LIGHTS					

	Fire Alarm Control Panel (4zones), Fire Alarm bell with manual call point, Smoke and fire alarm detector, TF Wire (150meter/roll), 20mm.dia. EMT Pipe series 1000 for electrical (3meter/length), 5HP Gasoline Booster Pump with Metal Housing, Automaric Emergency lights (twin lights), Fire Hose Cabinet with Complete Accessories, Fire Extinguisher HCFC 20lbs, Fire Extinguisher Dry chem 50lbs, Exit Signs/Comfort Room sign/ Direction Sign	1.00	lot			
Total -XI			**Php**			
XII.	**LAN, TELEPHONE, FIBER OPTIC & CCTV**					
	Note: All LAN cables shall be terminated in T-568B color code (RJ45 module and patch panel), properly tagged					
	UTP Cable, Branded, Cat6/7 Pure Copper Cable, Shielded Foiled Twisted Pair, 23AWG, Insulated with HDPE polymer, LSZH-3 (IEC 60332-3) Flammability Rating, 802.3af/802.3at PoE compliant	1.00	lot			
	Patch Cable, Branded, Cat6/7 Pure Copper Cable, Shielded Foiled Twisted Pair, 23AWG, Insulated with HDPE polymer, LSZH-3 (IEC 60332-3) Flammability Rating, 802.3af/802.3at PoE compliant, 3m, Factory Terminated Straight Through Patch Cable					
	Network Outlet, Branded, 2 Gang Wall Mounted LAN Outlet, Loaded, White					
	RJ45 Plug, Branded, Cat6/7 RJ45, 8P8C, 50Micron Gold plated contacts, for 23 AWG solid wire cables					
	Patch Panel, Branded, 48Port Cat7 110 patch panel Loaded, T568A and T568B compliant, RJ11/RJ45 universal port, Rack Mounted					
	Cable Manager, Branded, Horizontal cable manager with cover, 19" 2U black plastic, Slotted					

	Network Switch, Layer 2/3 Managed, 48 RJ-45 auto-sensing 10/100/1000 ports, Support PoE+ IEEE 802.3at/af and 24V Passive PoE, 2 SFP+ Port/2SFP Port, Serial console port, 70Gbps Non-Blocking Throughput, 140Gbps Switching Capacity, 104.16Mpps Forwarding Rate, sFlow, VLAN, QoS, ACL, SNMP v2c/v3, CLI and Web Based Management, Telnet/SSH Connection, EIA Standard 19" 1U height, Rackmountable with rackmounting kit, 200-240VAC Power Supply					
	Access Point, Outdoor wireless access point PtP and PtMP Application 10/100/1000 Ethernet Port 600+ Mbps Throughput Full-Band 5GHz Frequency 10/20/30/40/50/60/80 MHz Channel Sizes ± 24 kV Contact/Air ESD/EMP Protection 24V Passive PoE, 1A Gigabit PoE Adapter (Included) Access Point/Station Mode 26dBi Gain 5.1-5.9 GHz Frequency Light Weight Design 200km/h Wind Survivability 550 N @ 200km/h Wind Loading Outdoor UV Stabilized Plastic Enclosure RoHS Compliat, CE/FCC/IC Certified Accessory: Pole Mount Kit (Included)					

	Access Point, Indoor Managed Wireless Access Point, 2.4GHz and 5GHz Dual Frequency, 600mbps 2.4GHz and 2.4Gbps 5GHz throughput speeds, 4x4 MIMO Antenna, 26 dBm 2.4GHz/5GHz TX power, 802.11ax Wireless Standards, 802.3at PoE Compliant, 10/100/1000 Ethernet Port, 8 BSSID per Radio, SSH access, SNMPv3, 802.1Q VLAN Support, WPA-PSK/WPA-Enterprise Wireless Security, Guest Traffic Isolation, 300+ Concurrent Clients, Wall/Ceiling Mount Kit Included					
	Network Cabinet, Wall mount enclosure for network switch, 12U height, at least 21" mounting depth, cooling fans at the top, Vented, top and bottom cable ports, Supports up to 150 lbs., Locking perforated front door, Removable and locking side panels with louvre, Accessories: 2x 6 Outlet PDU, 1x Cantilever tray, 20x M6 Cage Nuts and Screws					
	UPS, Line Interactive UPS 220-240V Input/Output Voltage Range Output Connectors: 4x IEC 320 C13 Input Connection: IEC 320 C14 Power Capacity: 1000Watts/1500VA Surge Suppresion: Yes, 459 Joules Circuit Protection: Resettable Circuit breaker Battery: Lead Acid Runtime:7mins at full load Recharge Time: 3 hours Interface Ports: RJ45 Serial, SmartSlot, USB Control Panel: Multifunction LCD					

	Network Video Recorder, 32 Channel NVR, 12 MP Recording Resolution, H.265+/H.265/H.264+/H.264/MPEG4, 4K (3840 × 2160) HDMI Video Output, Independent HDMI and VGA Outputs, 4 SATA HDD, Smart Search and Smart Playback, Alarm and Audio I/O, HDMI Output Resolution 4K (3840 × 2160), VGA Output Resolution 1920 × 1080p, Decoding Format H.265+/H.265/H.264+/H.264/MPEG4, Live View/Playback Resolution 12 MP/8 MP, Synchronous Playback 16-ch, Power ≤210 W, Fully compatible with existing HikVision CCTV System					
	Hard Disk Drive, 3.5" internal drive, 4TB Capacity, 64 MB cache SATA, 6Gb/s, 24/7 usage, for surveillance purposes.					
	Monitor, 27" 1920x1080 Resolution, Led backlight, VGA and HDMI Connection, w/ Wall mount bracket					
	CCTV Camera, Indoor/Outdoor Bullet type CCTV Camera, 4MP IP based camera, 2560 × 1440 @25fps, 2.8mm/4mm/6mm fixed lens, H.265+, H.264+, 0.0014 Lux @ (F1.0, AGC ON), 0 Lux with Light, Full Time Color Night Mode, 120dB WDR, 3D DNR, DC12V & 802.3af PoE Compliant, IP67, Fully compatible with HikVision NVR					
Total - XII						
XIII.	**PLUMBING WORKS**					
	(Note: All PPR Pipe, PVC pipings and fittings shall be "Moldex, Neltex or approve equal)					

	Water Closet with S/S Sanitary Bidet and Complete Accessories, Half Pedestal Lavatory with Faucet and Complete Accessories, SUS304 S/S Sink with Goose Neck Faucet and Complete Fittings and Accessories, Manual Flushing Urinal with Complete Accessories, 1/2" dia PPR Pipe PN20, 1/2" Gate valve, Check Valve, Heavy Duty S/S Faucet, S/S Odor-interceptor Floor Drain, 2" uPVC Pipe Series 1000, 4" uPVC Pipe Series 1000, Consumables (Teflon tape, Cement Solvent, Vulcaseal, etc.), PPR pipe fittings/accessories (tee, wye, elbow, cleanout, etc.), uPVC Pipe fittings/accessories (tee, wye, elbow, cleanout, etc.), Construction of 1.5m x 2.5m x 3.0m Depth Septic tank (4" CHB, 12mm Dia RSB, 10mm Dia. RSB), Construction of 0.30m Width x 0.40m Depth x ±60.0m Linear Meter (Verify Actual) Open Canal with Catch Basin and Steel Grating Cover	1.00	lot			
Total - XII			**Php**			

XIV.	DOORS AND WINDOWS					
	D1, 3.0m x 2.40m Double Swing Steel Door with 10mm Thk Clear Glass on 1/2" x 1/2" Powder Coated Aluminum Frame Viewing Glass, 2" x 2" x 6mm Thk Angle Bar with Dowels Door Jamb, 1 1/2" Dia. S/S Door Handle, Heavy Duty Bearing Type Hinges, Padlock Lockset with Footbolt, Spray Paint Finish	1.00	lot			
	D2, 3.0m x 2.40m 9mm Marine Plywood Double Swing Hollow Core Flush Door with 10mm Thk Clear Glass on 1/2" x 1/2" Powder Coated Aluminum Frame Viewing Glass, KD Wood Door Jamb, 1 1/2" Dia. S/S Door Handle, Heavy Duty Bearing Type Hinges, Single Cylindrical Deadbolt Lockset with Footbolt, QDE Paint Finish					
	D3, 1.0m x 2.10m 9mm Marine Plywood Hollow Core Flush Door with 10mm Thk Clear Glass on 1/2" x 1/2" Powder Coated Aluminum Frame Viewing Glass, KD Wood Door Jamb, Heavy Duty Bearing Type Hinges, Heavy Duty Lever Type Lockset, QDE Paint Finish					

	D4, 0.90m x 2.10m 10mm Tempered Gray Glass Door on Ivory Powder Coated Aluminum Frame and Jamb, 1 1/2" Dia. S/S Door Handle with Heavy Duty Cylindrical Loskset, 2.0m x 2.50m 10mm Tempered Gray Glass on Ivory Powder Coated Aluminum Frame for Ante Room Glass Wall					
	D5, 0.90m x 2.10m 9mm Marine Plywood Hollow Core Flush Door with KD Wood Door Jamb, Heavy Duty Bearing Type Hinges, Heavy Duty Lever Type Lockset, QDE Paint Finish					
	D6, 0.70m x 2.10m 9mm Marine Plywood Hollow Core Flush Door with KD Wood Door Jamb, Heavy Duty Bearing Type Hinges, Heavy Duty Lever Type Lockset, QDE Paint Finish					
	D7, 1.6m x 2.60m Pre-Fabricated Sliding Steel Door, Gauge 12 G.I. Plain Sheet with 1" x 1" x 1.0mm Thk Tubular Bar Clip on 2" x 3" x 2mm Thk Tubular Framing, Topmount Door Track Sliding with Steel Rooler, Padlock Lockset with Rooler Guide Base, Spray Paint Finish					
	GL, 4.15m x 2.10m 4-Panels 10mm Thk Tempered Gray Fixed Glass Wall, 3/4" Class A Marine Plywood Box Type Mullion Synthetic Wood Finish with 2" x 6" KD Wood Base and Header Frame Natural Finish, 1" x 1" KD Wood Clip Natural Finish					
	Roll-up Window Blinds					
	W1, 5.0m x 1.10m, 10mm Thk Gray Glass on Analok Framed Sliding with Fixed Window, Window Mount Latch Lock, 1" x 2" Tubular Window Grills, QDE Black Finish					
	W2, 4.0m x 1.10m, 10mm Thk Gray Glass on Analok Framed Sliding with Fixed Window, Window Mount Latch Lock, 1" x 2" Tubular Window Grills, QDE Black Finish					

	W3, 5.0m x 0.25m, 10mm Thk Gray Glass on Analok Framed Fixed Window, 5.0m x 0.60m Aluminum Expanded Wire Mesh on Aluminum Framing for Window Concrete Louver Blocks					
	W4, 1.0m x 0.60m, 10mm Thk Gray Glass on Analok Framed Awning Window, Window Mount Latch Lock					
	W5, 1.60m x 0.90m, 10mm Thk Clear Glass on Analok Framed Viewing Fixed Window					
Total - XIV			**Php**			
XV.	**EQUIPMENT SUPPLY**					
	1 unit 2.5-ton Diesel Forklift - Japan / Korean Made - Lift height: Upto 6m - Capacity: 2500 kg - Load Centre: 500 mm - Turning radius: 2400 mm - Length to fork face: 2770 mm - Overall width: 1255 mm - Overhead guard height: 2195 mm - Gearbox – Transmission: Powershift ; 1fwd / 1rev - Engine – Model: Diesel - Piston Displacement: 2486 cc - Rated power / rpm: 33 kW / 2200 rpm - Gradeability @ 1.5 km/hr: 23% @ 1.5 km/hr - Engine – Rated Torque / rpm: 148 Nm / 2100 rpm	1.00	lot			
	3 units Heavy Duty Hydraulic Hand Pallet - WH30-11 Hand pallet truck - 3000 kg capacity - 115mm lifting height - 200mm max fork lifting height					

	- 1220mm fork length - 160mm fork width					
	50pcs Heavy Duty Plastic Pallet - Size: 1200 x 1200 - Load Capacity: 4tons - Entry Type: 4-way - Style: Single Face					
Total - XV			**Php**			
XVI.	**OTHERS**					
	>Professional Fees / Permits / Testing Fees /PPE'S/ Signage >Technical Personnel >Temporary Facilities/ Perimeter Fence	1.00	lot			
Total - XVI			**Php**			
TOTAL SUMMARY OF COST						
				MATERIAL COST	**LABOR + EQUIPMENT COST**	**ESTIMATED DIRECT COST**
Direct Cost						
Material Cost +			**PhP**			
Labor Cost + Equipment Rental Cost			**PhP**			
Total Direct Cost			**PhP**			
Indirect Cost						
OCM			**PhP**			
PROFIT			**PhP**			
TAX			**PhP**			
Total Indirect Cost			**PhP**			
GRAND TOTAL ESTIMATED PROJECT COST				**PhP**		

EQUIPMENT SUPPLY TECHNICAL SPECIFICATIONS

XI. MECHANICAL WORKS AND FDAS (FIRE DETECTION AND ALARM SYSTEM)

A. ELECTRICAL EQUIPMENT (ACU UNITS)

Qty	Unit	Description	Unit Cost	Total Amount
3	sets	2.5 HP ACU - Inverter, PBS – Yellow Seal Accepted - Split Type - Cooling Capacity: 2.5 HP - EER Rating: 11.7 - Indoor Unit (W x H x D): 1050 x 250 x 320 mm - Outdoor Unit (W x H x D): 780 x 290 x 550 mm - Net Weight: 53 kg - Color: White	100,000.00	300,000.00
3	sets	30AT, ACU Breaker, 3phase, industrial type, MCCB bolt on type breaker, in NEMA 3R enclosure, gauge 16	3,000.00	9,000.00
			TOTAL	**309,000.00**

B. FIRE ALARM SYSTEM AND EMERGENCY LIGHTS

Qty	Unit	Description	Unit Cost	Total Amount
1	sets	Fire Alarm Control Panel (4zones)	22,000.00	22,000.00
2	sets	Fire Alarm bell with manual call point	2,500.00	5,000.00
24	pcs	Smoke and fire alarm detector	1,500.00	36,000.00
5	roll	TF Wire (150meter/roll)	2,000.00	10,000.00
100	piece	20mm.dia. EMT Pipe series 1000 for electrical (3meter/length)	200.00	20,000.00
1	sets	5HP Gasoline Booster Pump with Metal Housing	10,000.00	10,000.00
10	unit	Automaric Emergency lights (twin lights)	2,200.00	22,000.00
2	sets	Fire Hose Cabinet with Complete Accessories	18,000.00	36,000.00
3	unit	Fire Extinguisher HCFC 20lbs	8,000.00	24,000.00
10	unit	Fire Extinguisher Dry chem 50lbs	4,000.00	40,000.00
10	pcs	Exit Signs/Comfort Room sign/ Direction Sign	3,000.00	30,000.00
			TOTAL	**255,000.00**

XII. LAN, TELEPHONE,FIBER OPTIC & CCTV

Note: All LAN cables shall be terminated in T-568B color code (RJ45 module and patch panel), properly tagged

Qty	Unit	Description	Unit Cost	Total Amount
4	box	UTP Cable, Branded, Cat6/7 Pure Copper Cable, Shielded Foiled Twisted Pair, 23AWG, Insulated with HDPE polymer, LSZH-3 (IEC 60332-3) Flammability Rating, 802.3af/802.3at PoE compliant	8,500.00	34,000.00
10	piece	Patch Cable, Branded, Cat6/7 Pure Copper Cable, Shielded Foiled Twisted Pair, 23AWG, Insulated with HDPE polymer, LSZH-3 (IEC 60332-3) Flammability Rating, 802.3af/802.3at PoE compliant, 3m, Factory Terminated Straight Through Patch Cable	350.00	3,500.00
7	piece	Network Outlet, Branded, 2 Gang Wall Mounted LAN Outlet, Loaded, White	800.00	5,600.00
50	piece	RJ45 Plug, Branded, Cat6/7 RJ45, 8P8C, 50Micron Gold plated contacts, for 23 AWG solid wire cables	30.00	1,500.00
1	piece	Patch Panel, Branded, 48Port Cat7 110 patch panel Loaded, T568A and T568B compliant, RJ11/RJ45 universal port, Rack Mounted	2,000.00	2,000.00
1	piece	Cable Manager, Branded, Horizontal cable manager with cover, 19" 2U black plastic, Slotted	1,200.00	1,200.00
1	piece	Network Switch, Layer 2/3 Managed, 48 RJ-45 auto-sensing 10/100/1000 ports, Support PoE+ IEEE 802.3at/af and 24V Passive PoE, 2 SFP+ Port/2SFP Port, Serial console port, 70Gbps Non-Blocking Throughput, 140Gbps Switching Capacity, 104.16Mpps Forwarding Rate, sFlow, VLAN, QoS, ACL, SNMP v2c/v3, CLI and Web Based Management, Telnet/SSH Connection, EIA Standard 19" 1U height, Rackmountable with rackmounting kit, 200-240VAC Power Supply	85,000.00	85,000.00

2	piece	Access Point, Outdoor wireless access point PtP and PtMP Application 10/100/1000 Ethernet Port 600+ Mbps Throughput Full-Band 5GHz Frequency 10/20/30/40/50/60/80 MHz Channel Sizes ± 24 kV Contact/Air ESD/EMP Protection 24V Passive PoE, 1A Gigabit PoE Adapter (Included) Access Point/Station Mode 26dBi Gain 5.1-5.9 GHz Frequency Light Weight Design 200km/h Wind Survivability 550 N @ 200km/h Wind Loading Outdoor UV Stabilized Plastic Enclosure RoHS Compliat, CE/FCC/IC Certified Accessory: Pole Mount Kit (Included)	15,000.00	30,000.00
2	piece	Access Point, Indoor Managed Wireless Access Point, 2.4GHz and 5GHz Dual Frequency, 600mbps 2.4GHz and 2.4Gbps 5GHz throughput speeds, 4x4 MIMO Antenna, 26 dBm 2.4GHz/5GHz TX power, 802.11ax Wireless Standards, 802.3at PoE Compliant, 10/100/1000 Ethernet Port, 8 BSSID per Radio, SSH access, SNMPv3, 802.1Q VLAN Support, WPA-PSK/WPA-Enterprise Wireless Security, Guest Traffic Isolation, 300+ Concurrent Clients, Wall/Ceiling Mount Kit Included	10,000.00	20,000.00
1	piece	Network Cabinet, Wall mount enclosure for network switch, 12U height, at least 21" mounting depth, cooling fans at the top, Vented, top and bottom cable ports, Supports up to 150 lbs., Locking perforated front door, Removable and locking side panels with louvre, Accessories: 2x 6 Outlet PDU, 1x Cantilever tray, 20x M6 Cage Nuts and Screws	14,500.00	14,500.00

1	piece	UPS, Line Interactive UPS 220-240V Input/Output Voltage Range Output Connectors: 4x IEC 320 C13 Input Connection: IEC 320 C14 Power Capacity: 1000Watts/1500VA Surge Suppresion: Yes, 459 Joules Circuit Protection: Resettable Circuit breaker Battery: Lead Acid Runtime:7mins at full load Recharge Time: 3 hours Interface Ports: RJ45 Serial, SmartSlot, USB Control Panel: Multifunction LCD	30,000.00	30,000.00
1	piece	Network Video Recorder, 32 Channel NVR, 12 MP Recording Resolution, H.265+/H.265/H.264+/H.264/MPEG4, 4K (3840 × 2160) HDMI Video Output, Independent HDMI and VGA Outputs, 4 SATA HDD, Smart Search and Smart Playback, Alarm and Audio I/O, HDMI Output Resolution 4K (3840 × 2160), VGA Output Resolution 1920 × 1080p, Decoding Format H.265+/H.265/H.264+/H.264/MPEG4, Live View/Playback Resolution 12 MP/8 MP, Synchronous Playback 16-ch, Power ≤210 W, Fully compatible with existing HikVision CCTV System	35,000.00	35,000.00
4	piece	Hard Disk Drive, 3.5" internal drive, 4TB Capacity, 64 MB cache SATA, 6Gb/s, 24/7 usage, for surveillance purposes.	7,500.00	30,000.00
1	piece	Monitor, 27" 1920x1080 Resolution, Led backlight, VGA and HDMI Connection, w/ Wall mount bracket	10,000.00	10,000.00
12	piece	CCTV Camera, Indoor/Outdoor Bullet type CCTV Camera, 4MP IP based camera, 2560 × 1440 @25fps, 2.8mm/4mm/6mm fixed lens, H.265+, H.264+, 0.0014 Lux @ (F1.0, AGC ON), 0 Lux with Light, Full Time Color Night Mode, 120dB WDR, 3D DNR, DC12V & 802.3af PoE Compliant, IP67, Fully compatible with HikVision NVR	6,500.00	78,000.00
			TOTAL	**380,300.00**

XV. EQUIPMENT SUPPLY

Qty	Unit	Description	Unit Cost	Total Amount

1	unit	2.5-ton Diesel Forklift - Japan / Korean Made - Lift height: Upto 6m - Capacity: 2500 kg - Load Centre: 500 mm - Turning radius: 2400 mm - Length to fork face: 2770 mm - Overall width: 1255 mm - Overhead guard height: 2195 mm - Gearbox – Transmission: Powershift ; 1fwd / 1rev - Engine – Model: Diesel - Piston Displacement: 2486 cc - Rated power / rpm: 33 kW / 2200 rpm - Gradeability @ 1.5 km/hr: 23% @ 1.5 km/hr -Engine – Rated Torque / rpm: 148 Nm / 2100 rpm	2,500,000.00	2,500,000.00
3	unit	Heavy Duty Hydraulic Hand Pallet - WH30-11 Hand pallet truck - 3000 kg capacity - 115mm lifting height - 200mm max fork lifting height - 1220mm fork length - 160mm fork width	40,000.00	120,000.00
50	pcs	Heavy Duty Plastic Pallet - Size: 1200 x 1200 - Load Capacity: 4tons - Entry Type: 4-way - Style: Single Face	4,500.00	225,000.00
			TOTAL	**2,845,000.00**