

PROJECT: Upgrading of ITDI Engineering Facility  
LOCATION: DOST Compound, Gen. Santos, Bicutan, Taguig City  
SUBJECT: BILL OF QUANTITY  
DATE:

ITEM NO.	DESCRIPTION	Qty	Unit	Material		Labor		ESTIMATED DIRECT COST	MARKUP IN PERCENT		TOTAL MARKUP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
									DCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	unit cost	cost	unit cost	cost	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
GENERAL REQUIREMENTS																
1.0	Mobilization/Demobilization ( including Temporary Facility, Temporary Utilities, Site Supervision, hauling & Deposit, Delivery and other necessary works need in the project )	1.00	lot													
2.0	Bonds, Insurances, C.A.M, Permits	1.00	lot													
3.0	Health and Safety Requirements ( includes PPE, Safety barrier, temporary board-up, Signages, Scaffolding, Safety Harness and other safety requirements need in the project )	1.00	lot													
4.0	WATER SUPPLY	1.00	lot													
5.0	Contamination	1.00	lot													
6.0	Contaminating	1.00	lot													
VISITOR'S ROOM																
ARCHITECTURAL																
1.0	Partitions/Divide															
a	Floor	1.00	lot													
b	Tile Work	1.00	lot													
c	Ceiling	1.00	lot													
2.0	Windowing															
a	Wood Door complete with accessories, in doorlock, hinges, steelbolt	1.00	unit													
3.0	Ceiling, Installation of Drop Ceiling (Area 17.14 sqm)															
a	Flat Ceiling Board, 1.2m x 0.6m x 0.09m	8.00	pcs													
b	Main Tee runner 14mm x 3.5m	7.00	pcs													
c	Cross Tee Runner 14mm x 1.5m	25.00	pcs													
d	Wall Angle 1.2mm thick (20mm x 20mm x 2.44mm)	6.00	pcs													
e	Grate	8.00	pcs													
f	Maintenance and Consumables (lock screws/bolts, lock nut & washer, connector)	1.00	lot													
4.0	Finishing															
a	Ceiling Paint (Area 17.14 sqm)	1.00	gal													
b	Paints 50% / Acrylic paint	1.00	lot													
c	Acrylic Wall (25.1 sqm)	3.00	gal													
5.0	Substrate															
a	Cabinet with glass door	1.00	lot													
b	Shelf Brackets / Drawer Brackets	2.00	unit													
c	Under stair shelves	1.00	lot													
6.0	Equipment															
a	Wire Mesh Partition	1.00	unit													
7.0	Major Works															
a	Air conditioner unit	2.00	sets													
8.0	Furniture															
a	Reception Table	1.00	set													
b	Working Table	1.00	set													
c	Consultation Table	1.00	set													
d	Mobile Table	2.00	sets													
e	Side Table	2.00	set													
f	Bench	1.00	set													
g	Bar Stool	8.00	set													
h	Office Chair, Mid-high	4.00	set													
9.0	Structure	1.00	lot													
STRUCTURAL WORKS																
	Floors	1.00	lot													
Auxiliary works																
1.0	Cable and Fittings															
2.0	Devices	1.00	lot													
a	Telephone Outlet	1.00	pc													
b	LAN Outlet	5.00	pc													
c	HDML Outlet (female)	2.00	pcs													
3.0	Wires and Cables															
a	HDML Cable	6.00	mtr													
FIRE SAFETY																
1.0	Fire extinguisher (ABC) with Pressure	1.00	unit													
2.0	Emergency Light	4.00	unit													
3.0	Exit Light	1.00	unit													
FIRE																
1.0	Smoke Detector	2.00	units													

# ESS OFFICE

ARCHITECTURAL													
1.0	Repartition Works												
1.1	Part	1.00	sq										
1.2	Top Work	1.00	sq										
1.3	Bottom	1.00	sq										
2.0	Finishing												
2.1	Finishing Works	1.00	unit										
2.2	Painting - Application of Grey Ceiling (Area: 20 sqm)												
2.3	Paint - General (Area: 4 sqm)	14.00	pce										
2.4	Wall - See runner 24mm x 3.5m	15.00	pce										
2.5	Grass - See Runner 24mm x 1.2m	90.00	pce										
2.6	Wall Angle 2.2mm x 20mm x 20mm x 2.44mm	17.00	pce										
2.7	Grill	12.00	pce										
2.8	Accessories and Consumables (such as scaffolding, hook, nut & washer, connector)	1.00	sq										
3.0	Plumbing												
3.1	Plumbing Works	1.80	sqm										
3.2	Plumbing - Part (Area: 20 sqm)	2.00	gal										
3.3	Security Grille (Area: 1 sqm)	1.00	sq										
3.4	Grill (Area: 25 sqm)	4.00	gal										
4.0	General												
4.1	General Works	16.00	pce										
4.2	Plumbing - Part (Area: 20 sqm)	25.00	pce										
4.3	Plumbing - Part (Area: 20 sqm)	3.00	pce										
5.0	Other Works												
5.1	Plumbing - Part (Area: 20 sqm)	3.00	pce										
6.0	Plumbing												
6.1	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.2	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.3	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.4	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.5	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.6	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.7	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.8	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.9	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.14	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.15	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.16	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.17	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.20	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.28	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.29	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.30	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.31	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.32	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.34	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.36	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.37	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.38	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.39	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.40	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.41	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.45	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.46	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.47	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.48	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.49	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.50	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.51	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.52	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.53	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.54	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.56	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.58	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.59	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.60	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.61	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.66	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.70	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.71	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.74	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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6.77	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.78	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.79	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.80	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.81	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.82	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.83	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.84	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.85	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.86	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.87	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.88	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.89	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.90	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.91	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.92	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.93	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.94	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.95	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.96	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.97	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.98	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.99	Plumbing - Part (Area: 20 sqm)	1.00	sq										
6.100	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.0	Plumbing												
7.1	Plumbing Works	1.00	sq										
7.2	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.3	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.4	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.5	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.6	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.7	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.8	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.9	Plumbing - Part (Area: 20 sqm)	1.00	sq										
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7.11	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.12	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.13	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.14	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.15	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.16	Plumbing - Part (Area: 20 sqm)	1.00	sq										
7.17	Plumbing - Part (Area: 20 sqm)	1.00	sq										

[illegible]

## SCOPE OF WORK

### I. Packaging Technology Division Bldg

#### Changes / Additional Scope of work

- Supply and install 1 new toilet LED light and fixtures. **Fumaco Bathroom Dome**
- **Supply and Install Glass Partition**

### Designers room and work area (Basement)

#### Changes / Additional Scope of work:

- Supply of 8 display cabinet, all metal, with sliding glass door.
- Supply of 1 set **Accordion** wall partition.
- Supply of 6 **sets** industrial rack system.
- **Supply and Installation of 10 sets 2-40W Fumaco Contura surface LED Lights**

#### For Removal on the list:

- Repainting of roof 200 sq.m , patching of holes. Use Boysen RoofGard.
- Repainting of external walls of the bldg. Pressure wash first the bldg before repainting (300 sq.m.). Including power house. Use Bosyen paints.

### **PTD Garage** ---- kindly include this

- **Installation of Side Flushing**
- **Repair of Gutter**
- **Installation of 3" C-Clamp**

### **Power House**

#### Changes / Additional Scope of work:

- Supply and Replace power house roof including gutter, parapet, c-purlins support Area 40 sq.m. (4.9m x 8.9m)

### **PTD Staff room, Library, Pantry and Entrance** ---- kindly update title

#### Changes / Additional Scope of work:

- Replacement and Installation of surface mounted downlight LED lights, 20W, Use fumaco brand
- Supply and Installation of Frameless 12mm thk Tempered Double Swing glass door (complete with all accessories)
- Supply and Installation of double action door hinge (toilet door)
- Install all new steel roof canopy 2.4 x 2.m.

- Replacement of 3 roof sheet, rib type, refer to actual for ga, must include all consumables
- Replacement of cabinet door, handle and hardware (SS)
- Repainting of roof 300 sq.m, patching of holes. Use Boysen RoofGard.
- Repainting of Interior Wall 300 sqm. Use boysen semi-gloss
- Replacement of wood ceiling light housing, refer to actual for profile, include painting works
- Water proofing of concrete gutter and concrete canopy, Use cementitious membrane. Coverage area 50 sq.m.
- Etching of garage c-purlins (6-20m) and steel post (4-7m)
- Power wash main entrance flooring
- Supply and Installation of Korean Blinds
- Landscaping

For Removal on the list:

Photography room

Scope of work:

- Supply and Install 2-3 gang convenience outlet.
- Supply and install 2 HP inverter type window type aircon.

## **II. Packaging R&D Laboratory**

Changes / Additional Scope of work:

- Replace rotten eaves and install new made of slotted 4.5mm thk cement board on metal furring (ga 25). Total area 96 sq.m.
- Apply new Boysen paint on new eaves. 96 sqm
- Install external switch with cover use National.
- Replace existing ceiling with 4.5mm thk cement board, replace rotten ceiling joist with metal furring ga 25 Total area 80 sq.m.
- Repainting of new ceiling, 80 sqm. Use Boysen flat white paint.
- Repainting of Interior Wall 260sqm area, pressure wash before application
- Repair of water line of the 2 flush down water closet (excavation and tapping, complete the system)
- Supply and Installation of Water closet (complete with accessories; tissue holder, bidet, valve, etc)
- Replacement of Urinal (complete with accessories)
- Supply and Install 1 new Carrier inverter 3 hp Floor mounted Split-type ACU.
- Replace Stair Nosing



- Drywall partition for the controlled packaging room, use 12.0mm thk Hardieflex on Metal Furring syste, ga 25.
- Painting of drywall partition 31.38 sqm area (approx.)
- Supply and installation of 2 HP inverter window type ACU, carrier brand
- Water proofing
- Supply and Installation of Frameless 12mm thk Tempered Double Swing Glass Door
- Supply and Installation of Frameless 12mm thk Tempered Double Swing Frosted Glass Door
- Supply and installation of window 2000mm x 1000mm
- Supply and installation of window 2960mm x 1000mm
- Landscaping

For Removal / update on the list:

- Install 6 sets downlight by Fumaco *MRC* recessed type. (*just exclude MRC*)
- Replace worn out flush valve set with SLOAN valve.
- Replace all internal parts of the 2 water closets. Use good quality parts. Brand approval by the end user.
- Supply and Install 4- 2m KD wood slats with insect screen. (Verify location).

**PROJECT TITLE: Upgrading of ITDI Engineering Facility**

**ESTIMATED PROJECT COST: P 3,000,000.00**

**PROJECT DURATION: 90 days**

## **TECHNICAL SPECIFICATIONS**

### **1. General Requirements**

#### **1.1. Mobilization / Demobilization**

- 1.1.1. Temporary Facilities / Utilities shall be sub-metered and to be connected on on-site power and water supply
- 1.1.2. Site Supervision
- 1.1.3. Hauling and Disposal
- 1.1.4. Delivery of materials
- 1.1.5. Relocation of Machineries to another area / storage during construction
- 1.1.6. Return the Machineries inside the finished Machine shop to designated area, refer to proposed plan

#### **1.2. Permits / Insurances**

- 1.2.1. Building Permit
- 1.2.2. Occupancy Permit
- 1.2.3. CARI
- 1.2.4. Contractor's Bond

#### **1.3. Health and Safety Requirements**

- 1.3.1. PPE and other safety requirements
- 1.3.2. Contractor shall be responsible for the safety of the people and security on the jobsite

#### **1.4. Material Sample**

- 1.4.1. The contractor shall allow cost related to the review and submission of materials for approval by the End-user. No claims or time extension will be granted for delays to non-approval of materials submittals

- 1.4.1.1. Wall Paint - Paint 500mm x 700mm on wall as samples for approval. Provide at least 3 shades
- 1.4.1.2. Wood Finish - Provide 3 shades on wood sample for approval
- 1.4.1.3. Furniture - Provide at least one (1) sample for checking of End-user before final production
- 1.4.1.4. Upholstery – provide cloth samples for approval

- 1.4.2. No work shall commence until the samples are approved. Any rejected works executed without prior End-user's Approval shall be at the expense of the Contractor

#### **1.5. Documentation**

- 1.5.1. Contractor shall submit accurate As-Built Plan to the End-user in A3 / Blueprint and soft-copy

1.5.2. Progress Report - The Contractor shall allow for reporting of site activities by printed pictures, properly labeled and identified. Such reports shall be submitted to the End-user on a weekly basis

1.5.3. Shop Drawings – The Contractor shall submit shop drawings for the Owner's approval. Such drawings shall include the manner and methodology of which it will be installed. No work shall commence until the shop drawings are approved. Any rejected works executed without prior Owner's Approval shall be at the expense of the Contractor.

## 1.6. Housekeeping

1.6.1. Noise and dust should be minimized on the entire duration of the works. The Contractor shall ensure a plan is in place to address noise and dust pollution

1.6.2. The Contractor is to ensure that no debris, excess material including unsuitable soil will be accumulated or dumped illegally

1.6.3. The Contractor shall keep existing surface channels and drains receiving the discharge from the Site clear of silt, mud etc. at all times. The End-user will not entertain claims arising from failure to comply with this clause

1.6.4. The Contractor shall not dump unwanted building debris, chemicals, any noxious or polluting matter on any vacant plot of land, roadside or drains thereby causing chokage leading to mosquito breeding or causing contamination of the site or the drainage system. The Contractor shall be responsible in eliminating sources of water and air pollution in the site.

1.6.5. The Contractor shall ensure that the permanent works are cleaned and fit for occupancy prior to issuance of Taking Over Certificate (turn-over) from the End-user

## 2. Visitor's Area

### 2.1. Architectural Works

2.1.1. Restoration Works to any utilities / areas that will be affected / damaged during implementation works

2.1.1.1. Paint – color for approval of the end-user.

2.1.1.2. Tile work – should be the same as existing tile specification

2.1.1.3. Ceiling - should be the same as existing ceiling specification

### 2.1.2. Fenestration

2.1.2.1. Door type D-1; Solid swing door. Painted in approved color by the End-user. Hardware of doorknob, hinges and deadbolt, Hafele brand or any equivalent quality brand approved by the end-user

### 2.1.3. Ceiling Works

2.1.3.1. Installation drop ceiling using 4.5mm thk fiber cement ceiling in ceiling furring system. Include all necessary components, accessories and consumable to complete the ceiling framing

### 2.1.4. Finishing

2.1.4.1. Ceiling Paint - color for approval by End-user

2.1.4.2. Security Grills / aircon case – prep, prime and painted using black epoxy enamel paint of boysen

2.1.4.3. Accent Wall (Area: 35.1 sqm) - prep, prime and painted, color for approval by End-user



2.1.5. Cabinetry – all cabinets shall have 6mm plywood backing, stained using approved color by the end user

2.1.5.1. Cabinet with glass door (casework) (2500mm x 400mm) – use 3/4" thick plywood, smoothed before staining using approved color by the end-user. Glass door should be frameless 6mm clear glass with hinges, lock and inner side should be covered with frosted sticker / spray

2.1.5.2. Metal Shelves (2225mm x 400mm) - use 25mm x 25mm x 1.2mm thk Tubular Steel as framing. Prep, prime and painted using black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user. Use 3/4" thk plywood as shelves, smooth and stained. Finish for approval of end-user. Use of Rubber Sole for feet. Fixed on floor and ceiling

2.1.5.3. Under stairs - use 3/4" thick plywood, smoothed before staining using approved color by the end-user

2.1.5.4. Hardware - use SS pegs, soft-closed concealed full overlap hinges and handle; for approval of end-user

2.1.6. Partition

2.1.6.1. Wire Mesh Partitions – use of 3" x 3" welded wire mesh with frame of 75mm x 50mm x 1.2mm thk Tubular steel. Prep using red oxide, prime with no visible bumps and paint using black epoxy enamel of boysen or any equivalent quality brand approved by the end-user

2.1.7. Metal Works

2.1.7.1. Air-conditioner metal case

2.1.8. Furniture

2.1.8.1. Reception Table (1) (600mm x 1500mm x 750mm) – use double ply of 3/4" thk plywood as top; prep and stained with approved color by end-user. One (1) Black 2" Ø grommet shall be located as instructed by the end-user. Use of 100mm x 50mm x 1.2mm thk tubular steel shall be use as table legs, (refer to the plan for design); prep, prime and painted using black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user

2.1.8.2. Working Table (1) (800mm x 1500mm x 750mm) – use double ply of 3/4" thk plywood as top; prep and stained with approved color by end-user. One (1) Black 2" Ø grommet shall be located as instructed by the end-user. Use of 100mm x 50mm x 1.2mm thk tubular steel shall be use as table legs, (refer to the plan for design); prep, prime and painted using black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user

2.1.8.3. Consultation Table (1) (600mm x 3150mm x 1000mm)– use double ply of 3/4" thk plywood as platform; prep and stained with approved color by end-user. Three (3) Black 3" x 6" rectangular grommet shall be located as instructed by the end-user. Use of 100mm x 50mm x 1.2mm thk tubular steel shall be use as table legs, (refer to the plan for design); prep, prime and painted using black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user

- 2.1.8.4. Mobile Pedestal (2) (400mm x 550mm x 650mm)– 2.5mm thk cold rolled steel plate with anti-rust treatment, with final finish in black powder coated finish which is scratch resistant. Drawer lock with key shall be provided. 3 drawers
- 2.1.8.5. Side table (2) – refer to Additional Information for pegs / reference
- 2.1.8.6. Bench Upholstered (1) – use synthetic leather, refer color according to end-user
- 2.1.8.7. Bar Stool (8) – refer to Additional Information for pegs / reference
- 2.1.8.8. Office Chair – Provide Mid-high (4) backrest with armrest. Refer to Additional Information for pegs / reference
- 2.1.9. Signage – refer to plan
- 2.2. Structural Works
  - 2.2.1. Stairs – Provide stair plan to end-user
- 2.3. Auxiliary – conduits should be embedded on wall
  - 2.3.1. Telephone Outlet
  - 2.3.2. Lan Outlet
  - 2.3.3. HDMI Outlet - female
- 2.4. Fire Safety
  - 2.4.1. Fire Extinguisher - provide 10lbs ABC with pedestal
  - 2.4.2. Emergency Light – use "omni" box-type
  - 2.4.3. Exit Light – LED, aluminum housing, acrylic panel
- 2.5. FDAS
  - 2.5.1. Smoke Detector - should be battery operated with fire alarm
- 3. ESS Main Office
  - 3.1. Architectural Works
    - 3.1.1. Restoration Works
      - 3.1.1.1. Paint – color for approval of the end-user. Paint 500mm x 700mm on wall as samples for approval. Provide at least 3 shades
      - 3.1.1.2. Tile work – should be the same as existing tile specification
      - 3.1.1.3. Ceiling – should be the same as existing ceiling specification
    - 3.1.2. Fenestration
      - 3.1.2.1. Window type W-1 Sliding. Use 6mm clear glass in analok sliding finish with security grills (follow existing on-site security grills). Painted with enamel paint
    - 3.1.3. Ceiling Works
      - 3.1.3.1. Installation drop ceiling using 4.5mm thk fiber cement ceiling in ceiling furring system. Painted with White Flat of boysen or any equivalent quality brand approved by the end-user
    - 3.1.4. Finishing
      - 3.1.4.1. Pantry (wall, Area: 1.92sqm) – as splash board, use 600mm x 600mm Ceramic Tile using mortar, adhesive, trim, leveling, setting grout and zero-zero spacing. Color of tile for approval of end-user
      - 3.1.4.2. Ceiling Paint (Area: 21sqm)- should be the same as existing ceiling specification

- 3.1.4.3. Security Grills / aircon case – prep, prime and painted using black epoxy enamel paint of boysen
- 3.1.4.4. Drywall (Area: 25.11 sqm)– use 2-3 coats of skimcoat gray on smooth face of board until smooth finish
- 3.1.5.Partition
  - 3.1.5.1. Drywall – use 9.0mm thk Fiber cement board of Hardieflex or approved equivalent on Metal Stud (ga 25) and Metal Track (ga 25). Face should be smooth side
- 3.1.6.Metal Works
  - 3.1.6.1. Air-conditioner metal case
- 3.1.7.Cabinetry – all cabinets shall have 6mm plywood backing
  - 3.1.7.1. Casework (pantry – counter/overhead) – use 3/4" thick marine plywood, smoothed before staining using approved color by the end-user. Should provide doors using 3/4" thk marine plywood with lock and hinges. Counter top should be Jet Black Granite with beveled finish and fascia of 150mm, miter joint
  - 3.1.7.2. Casework (Cabinet 1, 2 & 3) use 3/4" thick plywood, smoothed before staining using approved color by the end-user. Should provide doors using 3/4" thk marine plywood with lock and hinges
  - 3.1.7.3. Metal Shelves - use 25mm x 25mm x 1.2mm thk Tubular Steel as framing. Prep, prime and painted using black enamel paint of boysen or any equivalent quality brand approved by the end-user. Use 3/4" thk plywood as shelves, smooth and stained. Finish for approval of end-user. Use of Rubber Sole for the feet (2000mm x 400mm). Fixed on floor and ceiling
  - 3.1.7.4. Hardware - use SS pegs, soft-closed concealed full overlap hinges and handle; for approval of end-user
- 3.1.8.Furniture
  - 3.1.8.1. Working Table (8) (800mm x 1500mm x 750mm)– use double ply of 3/4" thk plywood as platform; prep and stained with approved color by end-user. One (1) Black 2" Ø grommet shall be located as directed by the end-user. Use of 100mm x 50mm x 1.2mm thk tubular steel shall be use as table legs, (refer to the plan for design); prep, prime and painted using black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user
  - 3.1.8.2. Consultation Table (1) (600mm x 3150mm x 1000mm) - use double ply of 3/4" thk plywood as platform; prep and stained with approved color by end-user. One (1) Black 2" Ø grommet shall be located as directed by the end-user. Use of 100mm x 50mm x 1.2mm thk tubular steel shall be use as table legs, (refer to the plan for design); prep, prime and painted using black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user
  - 3.1.8.3. Mobile Pedestal (8) (400mm x 550mm x 650mm)– 2.5mm thk cold rolled steel plate with anti-rust treatment, with final finish in black powder coated finish which is scratch resistant. Drawer lock with key shall be provided. 3 drawers
  - 3.1.8.4. Bench Upholstered (1) – use synthetic leather, refer color according to end-user



- 3.1.8.5. Bar Stool (8) – refer to Additional Information for pegs / reference
- 3.1.8.6. Office Chair – Provide Mid-high (8) backrest with armrest. Refer to Additional Information for pegs / reference

#### 3.1.9. Glasswork

- 3.1.9.1. Graphicote 01 (1400mm x 3150mm) – use 10mm thk tempered glass. Color for approval by the end- user. Use SS mounting holder 1/2" Ø, 10 pcs
- 3.1.9.2. Graphicote 02 (1400m x 3150mm) – use 10mm thk tempered glass. Color for approval by the end- user. Use SS mounting holder 1/2" Ø, 8 pcs
- 3.1.10. Waterproofing (pantry) – use only cementitious, with a minimum of 2 ply membrane, Drylok brand or any equivalent quality brand approved by the end-user. After application, Flood Testing shall be conducted to be witnessed by the end-user with a minimum of 2" high of water level and subjected to 24 - hour flood test
- 3.1.11. Specialty – Projector mount, mounted from ceiling
- 3.1.12. Signage – refer to plan

#### 3.2. Plumbing Works

- 3.2.1. Provide 10 GPM grease trap for the kitchen sink
- 3.2.2. Kitchen Sink (1) SS, one tub
- 3.2.3. Gooseneck Faucet (1) SS
- 3.2.4. Soil Pipe – use orange pvc pipes and fittings for the whole system to work. Check site for stub-out
- 3.2.5. Waterline – use PPR pipes and fittings for the whole system. Check site for stub-out

#### 3.3. Auxiliary

- 3.3.1. Telephone / Lan
- 3.3.2. HDMI
- 3.3.3. Access Control – Provide Biometric, passcode and ID Card Reader Access Controller. Accessories should include electromagnetic lock, electric strike, bracket, door release (soft-touch), UPS, Emergency Power Control, Emergency Door Release, Door Alarm / Bell

#### 3.4. Fire Safety

- 3.4.1. Fire Extinguisher - provide 10lbs ABC
- 3.4.2. Emergency Light – Twin head Daylight
- 3.4.3. Exit Light – LED, aluminum housing, acrylic panel
- 3.4.4. First Aid Kit - OSHA/ANSI Compliant

#### 3.5. FDAS

- 3.5.1. Smoke Detector – should be battery operated with fire alarm
- 3.5.2. Heat Detector - should be battery operated with fire alarm

### 4. Workshop

#### 4.1. Demolition Works

##### 4.1.1. Demolition of Concrete Platform

- 4.1.1.1. 16m x 1m 0.18m
- 4.1.1.2. 3.8m x 2m x 0.18m
- 4.1.1.3. 3.8m x 2m x 0.18m

## 4.2. Architectural Works

### 4.2.1. Fenestration

- 4.2.1.1. Door type D-2; Industrial Steel Frame Door. Use black epoxy enamel paint of boysen or any equivalent quality brand approved by the end-user. Hardware of top mounted barn sliding door, deadbolt and lock system, Hafele brand or any equivalent quality brand approved by the end-user

### 4.2.2. Finishing

- 4.2.2.1. Painting Works (Interior Wall) – clean wall surface before application of paint. Use Use Boysen Acrytex Semi-gloss for top coat and Boysen Acrytex primer for 1<sup>st</sup> coat or approved equal
- 4.2.2.2. Painting Works (Metal) – Use "Boysen" White Epoxy Enamel or approved equal
- 4.2.2.3. Epoxy Clear Floor Finish / Rubberized
- 4.2.2.4. Line Placement / Floor Marking – use traffic paint or marking floor tape

### 4.2.3. Roofing

- 4.2.3.1. Skylight – 10mm Thk laminated, Low-e glass. Included all frames, lock, sealant and other materials for whole system

## 4.3. Electrical

- 4.3.1. Dismantling of existing lighting fixtures, equipment's service disconnect switch, wiring and roughing ins

## 4.4. Provision of ramp

## 4.5. Fire Safety

- 4.5.1. Fire Extinguisher - provide 10lbs ABC
- 4.5.2. Emergency Light - Twin head Daylight
- 4.5.3. Exit Light - LED, aluminum housing, acrylic panel
- 4.5.4. First Aid Kit - OSHA/ANSI Compliant
- 4.5.5. Fire Blanket – glass fiber 1200mm x 1800mm

## 4.6. Auxiliary

- 4.6.1. Lan – use "Panasonic" wide series or per approval of End-use

## 5. Electrical Works

- 5.1. Roughing ins – shall include all supports and hangers needed. All switches, convenience outlet, conduits and fittings shall be embedded on the wall. No lines should be visible on the wall
- 5.2. Conduits and Fittings –IMC shall be used for Power, Lighting and PVC conduits (Moldex) for Auxiliary System. Flexible PVC Conduit with fittings shall be allowed from junction box to fixture, maintain a maximum length of 12" or 300mm.
- 5.3. Wires & Cables – THHN THWN Stranded wire shall be use, Duraflex or Phelps Dodge brand. 8.0 for panel, 5.5/3.5mm<sup>2</sup> for power / lighting and 2.0mm<sup>2</sup> (green) for ground
- 5.4. Outlet – use universal universal outlet Panasonic brand, white
- 5.5. Switches – use white color switch and plate Panasonic
- 5.6. Feeder line
- 5.7. Service Disconnect switch
- 5.8. Panel Board



- 5.9. Breaker
- 5.10. Junction box / utility boxes shall be covered with plate
- 5.11. Power Pole
- 5.12. Lighting
  - 5.12.1. Striplight – 220V Warm white
  - 5.12.2. Troffer light – relocation, refer to plan
  - 5.12.3. Tracklight – 5W daylight / warmwhite
  - 5.12.4. Pinlight – daylight 7W
  - 5.12.5. Droplight – daylight 5W
  - 5.12.6. Industrial Tube light with housing 2x20W daylight
  - 5.12.7. High Powered Lamp 40W daylight with socket
  - 5.12.8. Troffer light (relocation) (2)
  - 5.12.9. Lamp post light
- 5.13. On-Floor Raceway – follow color of existing tiles
- 5.14. Ceiling Raceway - black
- 5.15. Conduct Insulation Test (Megger Testing)
- 5.16. Miscellaneous and consumables
- 5.17. Sub-meter

## 6. Exterior Renovation

- 6.1. Structural Works
  - 6.1.1. Rehabilitation of Retaining wall
    - 6.1.1.1. Demolition of current retaining wall
    - 6.1.1.2. Installation of gabion wall
    - 6.1.1.3. Relocation of Lamp Post
- 6.2. Architectural Works
  - 6.2.1. Wall Finishing
    - 6.2.1.1. Paint - use Boysen Acrytex semi-gloss top coat and Boysen Acrytex for 1<sup>st</sup> coat or approved equal. Wall chipping, prep and primed. Color for End-user Approval
    - 6.2.1.2. Wall Cladding / Brise Soleil
    - 6.2.1.3. Wall Groove
  - 6.2.2. Floor Finish
    - 6.2.2.1. Pebble wash, grey color
  - 6.2.3. Site Signage
- 6.3. Landscaping work – Tiered planting. Provide landscaping plan and design to end-user. Seek approval with end-user before commencement of landscaping work
  - 6.3.1. Site clearing, leaving all trees on site
  - 6.3.2. Landscaping
    - 6.3.2.1. Soft scape
    - 6.3.2.2. Hard scape

## 7. Video Surveillance

- 7.1. Use of NVR poe system for the whole ESS Rooms (machine shop, ESS office and visitation room)
  - 7.2. Components: Client (keyboard and monitor – Network Video Recorder) Media Converter, Video Camera, Ethernet cable
  - 7.3. Refer to plans for different types of camera
    - 7.3.1. Dome type – Day/night, HD
    - 7.3.2. Bullet type – Day/Night, HD
  - 7.4. Other items necessary items to complete the system
- 
8. Structured Cabling
    - 8.1. for Ethernet cabling of whole ESS rooms (machine shop, ESS office and visitation room)
    - 8.2. Other items necessary items to complete the system

NOTES:

All works shall be in accordance with the governing Codes and Regulation and with the specifications, except those where same shall conflict with such Codes, etc., which latter shall govern.

**ALL ITEMS, MATERIALS, LABORS NOT SPECIFICALLY INCLUDED IN ALL OF THE ABOVE-CITED WORKS/SYSTEMS THAT ARE DEEMED NECESSARY COMPONENT FOR THE COMPLETE EXECUTION, IMPLEMENTATION, AND COMMISSIONING OF ALL WORKS/SYSTEMS CITED ABOVE MUST BE INCLUDED AS AWARDED CONTRACTOR'S "ONE LOT RESPONSIBILITY AND ACCOUNTABILITY WITHOUT ADDITIONAL COSTS/CHARGES TO DOST-ITDI AND EXTENSION OF PROJECT-TIMELINE".**



**PROJECT :** REPAIR & RENOVATION OF VARIOUS ITDI BUILDINGS & FACILITIES

**LOCATION:** DOST Compound, Gen. Santos Ave., Bicutan, Taguig City

**OWNER :** Industrial Technology Development Institute (ITDI)

**SUBJECT :** BID BULLETIN NO. 1

**Date :** December 14, 2020

This Bid Bulletin No. 1 is being issued to Bidders for their information and guidance in the preparation of their bids and shall be taken into consideration in their proposal. This bid bulletin will form part of the contract for this project.

**1. Governing Rules:**

Bidding and contract award for the above project shall be governed by the Revised Implementing Rules and Regulations of RA 9184 and the Philippine Bidding Documents (PBD), Fifth Edition, October 2016. Any discrepancy between the General Conditions and RA 9184, R.A 9184 shall prevail.

**2. Marking and Sealing of Bids**

- a. Contents of sealed envelope marked "ORIGINAL BID"  
Sealed Envelope 1 marked "Original – Eligibility & Technical Proposal"  
Sealed Envelope 2 marked "Original – Financial Proposal"
- b. Contents of sealed envelope marked "COPY NO. 1"  
Sealed Envelope 1 marked "Copy No. 1 – Eligibility & Technical Proposal"  
Sealed Envelope 2 marked "Copy No. 1 – Financial Proposal"
- c. Contents of sealed envelope marked "COPY NO. 2"  
Sealed Envelope 1 marked "Copy No. 2 – Eligibility & Technical Proposal"  
Sealed Envelope 2 marked "Copy No. 2 – Financial Proposal"
- d. The sealed outer envelopes marked "ORIGINAL BID", "COPY NO. 1" and "COPY NO. 2" shall be enclosed in **one single envelope/package**.
- e. All envelopes shall contain the following:

**PROJECT: (NAME OF THE PROJECT)**

**(NAME AND ADDRESS OF BIDDER IN CAPITAL LETTER)**

**TO: THE INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI)**

**ENGR. APOLLO VICTOR O. BAWAGAN  
ITDI-BAC CHAIRPERSON, SUB.COM. FOR INFRASTRUCTURE  
Metrology Building, DOST Compound  
Bicutan, Taguig City**

**DO NOT OPEN BEFORE: Scheduled date & time of opening of bids**

**4. Submission of Bids – December 21, 2020 8:30 A.M. – 9:00 A.M.**


**Late bids shall not be accepted**

**Opening of Bids – December 21, 2020, 9:01 A.M.**

**5. Minimum Work experience for the following:**

- A. Repair/Renovation of the Biosafety Laboratory of the Environment & Biotechnology Division (EBD)
  - i. Brand of airconditioning unit : Kolin
- B. Repair/Renovation of the Packaging Technology Division (PTD)
  - See attached Scope of Work
- C. Upgrading of ITDI Engineering Facility
  - See attached Technical Specifications

Issued by:

  
**ENGR. APOLLO VICTOR O. BAWAGAN**  
ITDI-BAC Chairperson, Sub. Com. for Infrastructure

*Our Business is Industry*

Membership:

- General Conference on Weights and Measures (CGPM)
- Asia Pacific Metrology Programme (APMP)
- Asia Pacific Legal Metrology Forum (APLMF)



### 3. Items to be considered in the preparation of Bid

3.1 Bid Proposal shall be in Philippine currency.

3.2 The bid shall be signed on each and every page by the duly authorized signatory of the bidder. Items with erasures on the bid should bear the initials of the authorized signatory.

3.3 Bidders shall submit a Bid Securing Declaration or at least one (1) other Bid Security, the amount of which shall not be less than the percentage of the ABC in accordance with the following schedule:

Forms of bid Security	Amount of Bid Security (Not less than to Percentage of the ABC)
a) Cash or Cashier's/manager's check issued by a Universal or Commercial Bank	Two percent (2%)
b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank	
c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security	Five percent (5%)

3.4 Bid bonds should be posted in favor of Industrial Technology Development Institute. If other than GSIS, the bid bond should be accompanied with certificate of accreditation from the Insurance Commission. Bid bonds should be submitted with original receipts of payments. Bid security shall be Callable on Demand with a validity period of 120 calendar days.

3.5 To guarantee the faithful performance by the winning bidder of its obligations under the contract, it shall post performance security taken from the categories below the amount of which shall be not be less than the percentage of the total contract price in accordance with the following schedule:

Forms of Performance Security	Amount of Performance Security Not less than the Percentage of the Total Contract Price)
a) Cash or Cashier's/manager's check issued by a Universal or Commercial Bank	Goods and Consulting Services - Five Percent (5%)
b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank	
c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security	Thirty percent (30%)