

# REPUBLIC OF THE PHILIPPINES TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES CAVITE CAMPUS



Management System ISO 9001:2015



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October 7, 2022

# OFFICE OF THE BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BID BULLETIN NO. 2022 – 03

Project

Construction of Micro-Farming Facility and Landscaping

Subject

Bid Bulletin No. 3

Date

October 7, 2022

This Bid Bulletin No. 3 is issued to the prospective bidders and other concerned parties for information and consideration in the bidding process.

Particulars	Details
Painting of Perimeter Walls	Perimeter wall within the vicinity of the landscaping area includes painting works
Measurements of chairs and tables and bris o leil shed	See attached detailed plan for exact measurements.
	Bris o leil Shed - 51 pcs as stated in Bill of Quantity
Water Pump	0.5 hp
Plants	In cases of unavailability, propose alternative subject to approval of BAC
	1 year warranty
Green house (Micro-Farming)	Frame encased with 200 microns plastic
	Insect Net
	Leveling of flooring
	Gravel size 1/4
SLCC	General Construction

For the guidance and information of all concerned.

Prepared by:

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BAC Chairperson TUP Cavite Campus

TUPC-F-OQA-DCG-14 ØØ (11.19.18)

#### **GENERAL SPECIFICATIONS**

# A. PROPOSED CONSTRUCTION OF MICRO-FARMING FACILITY AND LANDSCAPING

#### I. MOBILIZATION

Mobilization shall include transportation to the site of Contractor's plant, materials, equipment, employees and furnishing of contractor's temporary facilities.

#### II. CLEARING/ DEMOBILIZATION

The building site shall be leveled according to the plans and cleared of rubbish, roots and other perishable and objectionable matters to a suitable subgrade. All unsuitable materials shall be removed from the building site as may be directed by the Engineer in-charge of the construction. Also, if there is any demolition, it must be in accordance with the command of the engineer in-charge.

Demobilization includes dismantling and removal from the site of Contractor's plant, materials and equipment and all temporary facilities. Demobilization shall also include clean-up of the site after completion of the Contract Work as approved by the PMO and transportation from the site of Contractor's employee.

#### III. EXCAVATION

All excavation shall be made to the grade indicated in the drawings where the building site is covered with any kind of fill. The footing and all structural excavations should be made deeper until the stratum for safe bearing capacity of the soil is safe. All excavations shall be inspected and approved before pouring any concrete, laying underground services for placing select full materials.

#### IV. BACKFILLING

After concrete for foundation is hard enough to resist pressure resulting from fills, backfilling may then be done. Materials excavated may be used for backfilling. Fills and backfilling shall be placed in layers not exceeding six (6) inches in thickness and shall be thoroughly compacted by wetting, tamping and rolling. Specified backfilling includes the use of garden soil spread throughout the plants and shrubs as ground cover.

# V. CONCRETE/MASONRY WORKS

All concrete works shall be done according to standard specifications for concrete, in accordance with the National Building Code.

# 1. CEMENT

Portland cement shall conform to the "Standard Specifications for Portland Cement" (ASTM C-150).

# 2. CONCRETE AGGREGATES

Concrete aggregates shall be well graded, clean and hard particles of gravel crushed rocks.

- Fine aggregates shall be white sand or any washed sand of approve type as approved by the PMC.
- b. Coarse aggregates shall be of first class machine crushed stone gravel. Coarse aggregate shall be well graded as to size ranging from 20 mm in size for slabs, beams and columns and 25 mm for foundation works and footings.

# 3. WATER

Water to be used in mixing concrete shall be clean and free from injurious amounts of oil, acids, alkali, organic materials and other deleterious substances.

# 4. REINFORCING STEEL

All reinforcing steel bars to be used shall be new, and free from rust, oil, defects, grease, or kinks.

All rebars shall be billet steel, structural grade, ASTM A-15 deformed bars, Fy = 230 MPa

All column dowels shall be extended by a minimum of 1 meter from the second floor slab with epoxy primer coating.

#### 5. QUALITY OF CONCRETE

Strength of concrete shall be attained after twenty-eight (28) days with a compressive stress of 20.7 MPa for structural components such as footing, columns, beams and 17.24 MPa for slab on fill.

Proportioning of concrete shall be as follows:

- a. Class "A" (1:2:4) for all concrete footings, columns, and beams.
- b. Class "B" (1:21/2:5) for all concrete slabs on fill.
- c. Mixtures of 1:3 and 1:5 are to be used for plastering and mortar respectively.

#### 6. CONSISTENCY, MIXING, DEPOSITING AND CURING OF CONCRETE

- a. Concrete shall be machine mixed and be done in a batch mixer of approved type and will ensure uniform distribution of materials throughout the mass. Job mixing will be allowed only when approved by the IDO and with closed supervision.
- b. Continuous and monolithic pouring is preferred for all slabs and beams. Whenever possible, no construction joint shall be allowed on any parts of the structure without the approval of the engineer in charge of construction. Before depositing concrete, debris shall be removed from the space occupied by the concrete and forms shall be thoroughly wetted and buttered.
- c. Exposed surfaces of concrete shall be protected from premature drying by covering them with canvass, earth sand and other satisfactory materials and kept thoroughly wetted for a period of at least 10 days after being deposited.
- 7. MASONRY All concrete hollow blocks shall be sound and free from cracks or other defects that would interfere with the proper placing of the unit or impair the strength of construction. Sizes of blocks shall be 5"x8"x16" unless otherwise specified.

All concrete hollow blocks shall be laid plumb, true to the line and in accurately spaced courses, and shall reveal corners plumb and true and with each course breaking joint halfway with the course below. Units shall be wetted before laying. Joint shall be 3/8". The mortar on both the horizontal and vertical joints shall be buttered on the block at the time of laying and not flush or grouted in place. Reinforcement shall consist of 12mm vertical bars at 0.80 meters on center and 12mm horizontal bars placed at every third layer. Reinforcing bars shall have a lap of 40 bar diameter. All cells of concrete hollow blocks shall be filled with 1:5 concrete mortar.

#### VI. FORMS/SCAFFOLDINGS WORKS

Use steel scaffoldings or any approved equal for all scaffolding works for concreting, carpentry, steel works and other elevated portions of the building.

# VII. ELECTRICAL WORKS

All works shall comply with the provisions of the latest approved edition of the Philippine Electrical Code.

# 1. MATERIALS

- Feeder wiring shall be rigid steel conduit (RSC) and for branch circuit, it shall be made of PVC
- b. Minimum size of conductor shall be 3.5 mm² THWN+1.2mm² rated for 230 V and conduit shall be 15 mmø PVC trade size unless otherwise noted or indicated.
- c. All switches, convenience outlets and plates shall be National or any approved equal.
- d. All convenience outlets to be used shall be waterproof duplex.
- e. Circuit breaker shall be with its total number of circuits as indicated on the plan.
- f. Panel board shall be bolt-on type

# 2. INSTALLATION

No branch circuit running shall have a load of more than 80% of its rating. Boxes shall be provided if necessary although not seen in the layout. All splices shall be properly insulated and shall be done only inside boxes. Wall switches shall be installed 1.37m (4' 6") and convenience outlets at 0.30m (12") above floor unless otherwise specified or shown in the plans.

# VIII. PLUMBING

 $1. \quad \text{Ceramic tiles (16"} \text{x16"}) \text{ shall be used for fountains and shall be as approved by the engineer}.$ 

- Roughing-in for pipes shall be carried along with the building construction. Correctly located openings of proper sizes shall be provided where required in the walls and floors for the passage of pipes. All items to be embedded in concrete shall be thoroughly clean and free from dust scale and paint. All works shall be done in accordance with the National Plumbing Code.
- 3. Check installed rough-in pipe (sewer and water supply) before the installation of fixtures.
- 4. Pumps for TUPC façade should be 0.5hp submit material approval.

#### MATERIALS:

- a. Use %" (12mm) PVC pipe for water lines and %" (18mm) PVC pipe for riser or any approved equal as approved by the supervising Engineer.
- b. Use PVC fittings or any approved equivalent.
- c. Use 2",3" and 4" Neltex PVC pipe for waste lines or any approved equal.

#### IX. STRUCTURAL STEEL WORKS

This work shall consist of furnishing, fabricating, erecting and painting structural steel used to complete the structures in accordance with the plans and the specifications.

#### 1. MATERIALS

- All structural steel angle bars and flat bars shall conform to ASTM A-36 (fy = 36000 psi).
- All Galvanized Iron (GI) pipes should be class A.
- Steel use for brise soleil shall be 2"x6"x1.2mm.

#### 2. FABRICATION

All fabrication including workmanship, cutting, assembling, welding, finishing and tolerances shall be accomplished in accordance with the National Building Code and the National Structural Code of the Philippines. Welding electrodes shall be E 70 XX series.

#### 3 ERECTION

In no case shall any part of the load of a steel superstructure be transferred to a "Concrete Masonry" substructure before the 7<sup>th</sup> day after the date on which the pouring of the substructure unit is completed.

#### X. FLOOR / WALL FINISHES

#### EXTERIOR:

DESCRIPTION	LOCATION
Painted plain cement plaster finish	Exterior wall
Decorative stone	Entrance(post part from natural ground floor to top)

# XI. FINISHING HARDWARES

All hardware shall be suitable to the services required to fully equip all satisfactions of doors, windows, toilet, etc. Whenever available, locally made meeting these specifications are preferred although equivalent imported brands may be accepted and used.

Lockset, door hinges, showerhead, shower valve, faucets, hose bib, etc. shall be based on the recommendation of the engineer or the owner.

# XII. PAINTING

# **PREPARATION**

- All surfaces to be painted shall be examined carefully before beginning any work and see that all work of other trades or subcontractors are installed in workmanlike condition to achieve paint, stain or particular finish.
- Before proceeding with any painting or finishing, thoroughly clean, sand, and seal if necessary by removing from all surfaces all dust, dirt, grease, or other foreign substances

- which would affect either the satisfactory execution or permanency of the work. Such cleaning shall be done after the general cleaning executed under the separate division of the work.
- Only skilled painters shall be employed in the work. All workmanship shall be executed in accordance with the best acceptable practices.
- Finished hardware, lighting fixtures, plates and other similar items shall be removed by workmen skilled in these trades, or otherwise protected during painting operation or reposition upon completion of each space.
- Neither paint nor any other finished treatment shall be applied over wet or damp surfaces.
   Allow at least two (2) days from drying the preceding coat before applying the succeeding coat.
- Begin work only when resident IDO representative inspected and approved prepared surface otherwise no credit for coat applied shall be given. The contractor shall assume responsibility to recoat the work in question. Notify IDO when the particular coat applied is complete, ready for inspection and approval.

Schedule of painting shall be as follows:

- All masonry wall cement-finished surface one (1) coat neutralizer and two (2) coats
  of latex paint.
- 2. Fiber cement surface ceiling or wall partitions two (2) coats of semi-gloss enamel.
- 3. Wooden doors and door jambs shall be coated by putty.
- Steel and metal works one (1) coat epoxy primer and two (2) coats quick-drying enamel.
- 5. The paint to be used shall be Boysen or any approved equal.

#### XIII. MISCELLANEOUS

All concrete chairs shown in the drawing shall be painted and able to resist weather change and thermal expansion that will cause it to crack or fail. Refer for the existing sample in front of the Research and Extension Office.

#### XIV. PLANTS

Use the images as reference for the landscaping. Specifications may vary depending on the availability of such plants. All grass and plants shall have one (1) year warranty. If incase the mentioned plants is not available, submit replacement plants for approval.



**Dwarf Pandakaki Plant** 

Common Name: Dwarf Silver Pandakaki

and Dwarf Green Pandakaki.

Scientific Name: Tabernaemontana pandacaqui.



Picara Plant

Common Name: Picara/ Chinese Croton Scientific Name: Excoecaria cochinchinensis



Boxwood

Common Name: Buxus/ Boxwood Scientific Name: Buxus sempervirens



Photinia

Common Name: Chinese photinia or hawthorn

Scientific Name: Photinia serratifolia



San Francisco Plant Common Name: Tropical croton plant Scientific Name: Codiaeum variegatum



**Keyhole Pavers** 



Waterproof Lights



Pin Lamp

Prepared by:

Engr. CARUTO R. SAPIDA IDO - Chairperson



**Dwarf Holly**Common Name: Chinese photinia or hawthorn
Scientific Name: *Photinia serratifolia* 



Solar Garden Lamps



**Spotlight Lights** 



# TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES CAVITE CAMPUS

Carlos Q. Trinidad Ave., Salawag, Dasmariñas City, Cavite

# PROGRAM OF WORK FOR THE PROPOSED CONSTRUCTION OF MICROFARMING FACILITY AND LANDSCAPING

# SCOPE OF WORKS

l.	MOBILIZATION AND DEMOBILIZATION WORKS Clearing, Delivery of materials and equipment, Cle Soil scraping and back filling placing of garden so		of debris		
	MATERIALS:				
	DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
	Clearing and Back fill	1 lot	/lot	P	2
	Garden soil	160 cu.m	/cu.m	P	2
					-
			MATERIAL COST	P	*
			LABOR COST	P	
			DIRECT COST	Р	
11					
u.	CONCRETING AND MASONRY WORKS				
	CHB laying and plastering of the interior and external		kes		
	installation of tiles and the likes, canopies, concre	ete benches			
	MATERIALS:				0.0-22503323
	DESCRIPTION	QTY UNIT	UNIT PRICE	120	AMOUNT
	Cement	600 bags	/bag	Р	-
	water proofing agent (sahara)	7 bags	/bag	P	-
	Sand	27 cu.m	/cu.m	P	-
	Gravel	23 cu.m	/cu.m	Р	-
	Concrete Pavers	95 sq.m	/sq.m	Р	
	6" thk CHB	1350 pcs	/pc	P	-
	4" thk CHB	400 pcs	/pc	Р	-
			MATERIAL COST	P	-
			LABOR COST	. —	
			DIRECT COST	Р	-
ш.	REINFORCEMENT BAR WORKS				
	Reinforcement for CHB laying (dowels) and the li	ikes			
	MATERIALS:				
	DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
	16mm dia.	60 pcs	/pc	P	-
	12mm dia.	31 pcs	/pc	P	
	10mm dia.	120 pcs	/pc	P	
	Tie wire ( no. 16)	3 roll	/roll	P	
			MATERIAL COST	P	
			LABOR COST		
			DIRECT COST	P	-
ıv.	FORMS/SCAFFOLDING WORKS				
	Installation of scaffolding on all concreting, plast	ering, ceiling and pa	inting works		
	Installation of forms on all concreting works, can	opies	areas and a second		
	MATERIALS:				
	DESCRIPTION	QTY	UNIT PRICE		AMOUNT
	1/2" x 4' x 8' plywood	20	pcs	P	
	2" x 2" x 10' coco lumber	15	pcs	P	
	2" x 3" x 10' coco lumber	15	pcs	Р	
	H- frame rental/Pipe scaffolds	30	pcs	P	
	cwn 1 %"	20	kg	P	
	cwn 2"	20	kg	P	
	cwn 3"	20	kg	Р	
			MATERIAL COST	Р	
			LABOR COST		
			DIRECT COST	Р	
				_	

٧.	ELECTRICAL WORKS						
	Installation of electrical pipes, wires and fixtures						
	MATERIALS:						
	DESCRIPTION	QTY L	JNIT	UNIT	PRICE		AMOUNT
	15mm dia electrical conduit	90 p	)C5		/pc		
	20mm dia electrical conduit	20 p	ocs.		/pc		
	flexible hose	15 I	n/m		/ln.m		
	15mm coupling	30 p	ocs		/pc		
	15mm elbow	30 p	ocs	y	/pc		
	20mm coupling	20 p	ocs		/pc		#
	20mm elbow	20 p			/pc		2
	3.5mm^2 THWN Wire	2 5			/box		2
	5.5mm^2 THWN Wire	2 b	xoc		/box		
	Utility box	35 p	ocs		/pc		-
	junction box	40 p			/pc		-
	Two gang switch	2 5			/set		
	Convenience outlet	2 5			/set		
	Panel box	1 p			/pc		
	30A Circuit Breaker	1 p			/pc		
	Cove light (led strip light)	1 5			/set		
	waterproof light	3 p			/pc		
	circular lamp (pin light)	6 s			/pc		
	spot light				/set		
	100 watts solar street lamp	4 p					
		3 p			/set		
	solar post	2 p			/pcs		•
	Solar garden lamp	20 p			/set		*
	Consumables	1 1	ot		/lot		*
				MATERIAL COST		P	=
				LABOR COST			
				DIRECT COST		P	-
200							
VI.	STEEL WORKS						
	Fabrication and installation of brise soleil						
	Fabrication and Installation of greenhouse structure ar	nd the lik	es				
	MATERIALS:						
	DESCRIPTION	QTY L	JNIT	UNIT	PRICE		AMOUNT
	G.I. pipe 1 1/2" dia	27 p	ocs		/set	P	-
	G.I. pipe 1 " dia	60 p	ocs		/set	P	
	G.I. pipe 3/4" dia	50 p	ocs		/set	P	-
	door steel hinges	4 5	et		/set	P	-
	Flat bar 3/4" x 1/8"	45 p	ocs		/set	P	
	2" x 6" Tubular	51 p	ocs		/lot	Р	
	welding rod	10 k	g		/kg	P	
	Consumables	1 1	7		/lot	P	2
					.*		
				MATERIAL COST		Р	
				LABOR COST			-
				DIRECT COST		P	
VII.	PLUMBING WORKS						
	Installation of plumbing fixtures						
	Plumbing layout shower curtain fountain						
	MATERIALS:						
	DESCRIPTION	OTV I	INIT	UNIT	DRICE		AMOUNT
		QTY L		UNII	PRICE	_	AMOUNT
	Water Pipe lay out	1 1			/lot	Р	
	Water pump	1 s	et		/set	P	
				MATERIAL COST		Р	
				LABOR COST			
				DIRECT COST		P	
VIII.	FINISHING WORKS/TILE WORKS						
	Installation of tiles on flooring, façade decostone						
	water proofing						
	MATERIALS:						
	DESCRIPTION	QTY L	TINL	UNIT	PRICE		AMOUNT
	20" x 20" ceramic floor tiles (fountain)	60 p	cs		/pc	P	*
	20" x 20" ceramic floor tiles (fountain) Decorative stone (façade)	60 p			/pc /sq.m	P	
							-

<u>\*</u>

	Water proofing (reservior)	2 gallon		/gallon	ρ	-
	Tile adhesive	7 bags		/bag	P	₹:
	Tile grout	2 kgs		/kg	P	
			MATERIAL COST		P	•
			LABOR COST			
			DIRECT COST		P	
IX.	PAINTING WORKS					
	Painting of exterior wall, steel works painting					
	Painting of framing brise solie!		<i>y</i>			
	MATERIALS:					
	DESCRIPTION	QTY UNIT	UNIT	PRICE		AMOUNT
	Epoxy primer	10 gals		/gal	P	*
	Flat latex paint	20 tins		/tin	P	
	Elastomeric paint	20 tins		/tin	Р	-
	Enamel paint	10 tin		/tin	P	*
	Polyester body filler(polituff)	20 gal		/gal	P	-
	Concete neutralizer	15 gals		/gal	P	-
	Skim Coat	10 bags		/bag	P	-
	Paint thinner	5 gals		/gal	Р	7.
	Paint brush 2"	3 pcs		/pcs	Р	5
	Paint brush 3"	3 pcs		/pcs	P	*
	Paint roller Consumables	3 pcs		/pcs	P	*
	Consumables	1 lot	MATERIAL COST	/lot	P	*
			MATERIAL COST		P	-
			DIRECT COST			$\overline{}$
			DIRECT COST		P	
X.	MISCELLANEOUS					
х.	full Grown Plants and decorations, green house ne	, green house pla	stics			
	full Grown Plants and decorations, green house net adobe stone and the likes	, green house pla	stics			
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	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION adobe stones (random big size) concrete stone chairs and table boxwood plant	QTY UNIT  50 pcs 5 set 170 pcs		/pcs /sets /pcs	P	AMOUNT
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	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara	QTY UNIT  50 pcs 5 set 170 pcs 80 pcs 10 pcs		/pcs /sets /pcs /pcs /pcs	PPP	AMOUNT
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	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara photinia pandakaki	90 pcs 5 set 170 pcs 80 pcs 10 pcs 45 pcs 45 pcs		/pcs /sets /pcs /pcs /pcs /pcs /pcs /pcs	PPPP	AMOUNT
	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara photinia pandakaki san francisco	QTY UNIT  50 pcs 5 set 170 pcs 80 pcs 10 pcs 45 pcs 45 pcs 10 pcs		/pcs /sets /pcs /pcs /pcs /pcs /pcs /pcs /pcs	PPPPP	AMOUNT
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	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara photinia pandakaki san francisco frog grass green house net 4m x 60 (32x32 mesh insect net)	QTY UNIT  50 pcs 5 set 170 pcs 80 pcs 10 pcs 45 pcs 45 pcs 10 pcs 550 sq.m 6 roll 4 roli	MATERIAL COST LABOR COST DIRECT COST	/pcs /sets /pcs /pcs /pcs /pcs /pcs /pcs /pcs /pc	PPPPPPPP	AMOUNT
	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara photinia pandakaki san francisco frog grass green house net 4m x 60 (32x32 mesh insect net)	QTY UNIT  50 pcs 5 set 170 pcs 80 pcs 10 pcs 45 pcs 45 pcs 10 pcs 550 sq.m 6 roll 4 roll  A TOTAL DIRECT B OVERHEAD/CO	MATERIAL COST LABOR COST DIRECT COST	/pcs /sets /pcs /pcs /pcs /pcs /pcs /pcs /pcs /pc	PPPPPPP	AMOUNT
	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara photinia pandakaki san francisco frog grass green house net 4m x 60 (32x32 mesh insect net)	QTY UNIT  50 pcs 5 set 170 pcs 80 pcs 10 pcs 45 pcs 10 pcs 550 sq.m 6 roll 4 roll  A TOTAL DIRECT B OVERHEAD/CI C CONTRACTOR	MATERIAL COST LABOR COST DIRECT COST ONTIGENCY/MISC 'S PROFIT	/pcs /sets /pcs /pcs /pcs /pcs /pcs /pcs /pcs /pc	PPPPPPP	AMOUNT
	full Grown Plants and decorations, green house net adobe stone and the likes MATERIALS: DESCRIPTION  adobe stones (random big size) concrete stone chairs and table boxwood plant dwarf holly picara photinia pandakaki san francisco frog grass green house net 4m x 60 (32x32 mesh insect net)	QTY UNIT  50 pcs 5 set 170 pcs 80 pcs 10 pcs 45 pcs 45 pcs 10 pcs 550 sq.m 6 roll 4 roll  A TOTAL DIRECT B OVERHEAD/CO	MATERIAL COST LABOR COST DIRECT COST	/pcs /sets /pcs /pcs /pcs /pcs /pcs /pcs /pcs /pc	P P P P P P P P P P P P P P P P P P P	AMOUNT

Prepared by:

Engr. Ramon Christopher H. Escalona, PICE, SO2

IDO-Chairperson

Approved by:



