



INVITATION TO BID

1. The **PHILIPPINE TEXTILE RESEARCH INSTITUTE (PTRI)**, through the CY 2018 General Appropriation Act (GAA) intends to apply the sum of **TEN MILLION SEVEN HUNDRED FIVE THOUSAND PESOS (Php10,705,000.00)** being the total Approved Budget for the Contract (ABC) for payments under the contract of the following:

Item	Qty.	Particular	Amount
1	1 Lot	Expansion of Long Staple Processing Pilot Plant Area, Phase II	Php3,000,000.00
2	1 Lot	Upgrading of the PTRI's Technology Business Incubation (TBI), Phase II	Php2,000,000.00
3	1 Lot	Repair and Renovation of PTRI Administration and Laboratory, Phase VIII	Php5,705,000.00

Bids received in excess of the ABC shall be automatically rejected at the bid opening.

2. The PTRI now invites bids for the bidding of above projects. Completion of the works is required for **120 CALENDAR DAYS**. Bidders should have completed, within five (5) years from the date and submission and receipt of bids, a contract similar to the Project as provided for in Section 23.4.2.4. The description of an eligible bidder is contained in the Bidding Documents, particularly in Section II, Instruction to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184), otherwise known as the "Government Procurement Reform Act" (*Handbook on Phil. Government Procurement, 8th Edition, 2016*)

Bidding is restricted to Filipino citizens/sole proprietorship, partnerships, or organizations with at least seventy five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organization of a country the laws and regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183 and subject to Commonwealth Act 138.

4. Interested bidders may obtain further information from PTRI BAC Secretariat and inspect the Bidding Documents at the address given below from 8:00 a.m. to 5:00 p.m.

A complete set of Bidding Documents in soft copy contained in a CD may be purchased by interested Bidders from the BAC Secretariat upon payment of **TEN THOUSAND FIVE HUNDRED PESOS (Php10,705.00)**.

It *may also be downloaded* from the website: <http://www.ptri.dost.gov.ph> of the Procuring Entity, provided that upon submission of bids, the bidders shall pay the corresponding fee.

5. The PTRI will hold a **Pre-Bid Conference** on **17 April 2018 at 9:00 a.m. (Item 1); 11:00 a.m. (Item 2) and 2:00 p.m. (Item 3)**, PTRI Training Room, PTRI Main Building, Gen. Santos Ave., Bicutan, Taguig City, which shall be open only to all interested parties who have purchased the Bidding Documents.
6. Bids must be delivered to the PTRI Training Room, PTRI Main Building, Gen. Santos Ave., Bicutan, Taguig City, on **April 30, 2018 from 8:00 a.m. to 9:00 a.m. (Item 1); 10:00 a.m. to 11:00 a.m. (Item 2) and 1:00 p.m. to 2:00 p.m. (Item 3)**. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 1.18 or a **Bid Securing Declaration**.

Bid Opening shall be on **April 30, 2018 at 9:00 a.m. (Item 1); 11:00 a.m. (Item 2) and 2:00 p.m. (Item 3)** at the PTRI Training Room, PTRI Main Building, General Santos Avenue, Bicutan, Taguig City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address above. Late bids shall not be accepted.

7. The bidders shall submit three (3) sets of their duly accomplished eligibility requirements and Technical, and Financial proposal in two (2) separate sealed envelopes, contained in an outer envelope.
8. The PTRI reserves the right to accept or reject any bid, to annul the bidding process at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.
9. For further information, please refer to:

Marilou G. Agustin
Property Procurement and General Services Section (PPGSS)
Tel. No. (02) 837 2071 (loc. 2373) or
Tel/fax No. (02) 837 0744
mgagustin@ptri.dost.gov.ph

CORAZON I. TAPULGO
PTRI BAC Chairperson



Department of Science and Technology
PHILIPPINE TEXTILE RESEARCH INSTITUTE
APPROVED AGENCY ESTIMATE (AAE)

COST SUMMARY

Project Title **Rehabilitation and Expansion of Long Staple Processing Pilot Plant Area (Phase 2)**
Location : **PTRI - RDD - LSFPP Building 3, Bicutan, Taguig City**
Duration : **120 Calendar days**

SCOPE OF WORKS :		TOTAL AMOUNT
1.0	Civil Works	
2.0	Concrete Works	
3.0	Reinforcing Bars	
4.0	Masonry Works	
5.0	Carpentry Works	
6.0	Tinsmithry/ Roofing	
7.0	Finishing Works	
8.0	Doors and Windows	
9.0	Electrical Works	
10.0	Humidification, Ventilation and Air Conditioning	
11.0	Hardwares	
12.0	Construction safety and Health	
DIRECT COST	(Labor and Material Cost)	
INDIRECT COST	(Profit & Contingencies 15%)	
SUB TOTAL		
VAT	(Value Added Tax 12%)	
TOTAL PROJECT COST		

Prepared by :



PROJECT TITLE : **REHABILITATION AND EXPANSION OF THE LONG STAPLE PROCESSING PILOT PLANT AREA (PHASE 2)**
LOCATION : **PTRI - RDD LSFPF Building 3, Bicutan, Taguig City**
PROJECT DURATION : 120 CALENDAR DAYS

SCOPE OF WORKS : BILL OF QUANTITIES (Breakdown)

Item		Description	unlt	Qty	Material	Labor	Total Amount
A		Rehabilitation and Expansion of Long Staple Processing areas (phase 2)					
	1.0	CIVIL WORKS					
	1.1	Temporary facilities	lot	1			
		construction working shop					
		electrical					
		water storage					
		construction field office					
		construction toilet facilities					
		workers barracks					
	1.2	Removal / Demolition (wall - 100 sq.m.)	lot	1			
		demolition of existing structure (walls) on site					
		demolition/restoration of island chipping works / removal of all debris/					
	1.3	Earthworks	lot	1			
		excavation (concrete drainage = 3.0 cu.m.)					
		soil and rock anchor					
		Gravel fill					
		backfilling for concrete slab / drainage system					
		Utility line					
		sewage & drainage					
		utility pipe line					
		drains and inlet					
		<i>sub total</i>					
	2.0	CONCRETE WORKS					
	2.1	Columns (Extension incl. Front/rear 3000 psi @7days)	cu.m.	6			
	2.2	Drainage system (front)	cu.m.	6			
	2.3	Beams (ready mix concrete 3000 psi @ 14 days)	cu.m.	8			
	2.4	Concrete drainage(ready mix concrete 3000 psi @14 days)	cu.m.	8			
	2.5	Reinforced Slab on fill 3000 psi (ready mix @14days)	cu.m.	8			
		<i>sub total</i>					
	3.0	REINFORCING BARS					
	3.1	10 mm Ø x 6 m DRBbars (deformed bars grade 60)	pc	260			
		16 mm Ø x 6 m DRB bars (deformed bars grade 60)	pc	120			
		G.I. Tie wire # 16	kg	20			
		<i>sub total</i>					
	4.0	MASONRY WORKS					



		4.1	Plastering						
			Cementitious with slurry cement (interior/exterior)	sq.m.	200				
			Concrete Masonry Units (load bearing)						
			100 mm thick CHB (101mm x 203mm x 406mm)	pc	400				
			150 mm thick CHB (150mm x 203mm x 406mm)	pc	300				
			<i>sub total</i>						
	5.0	CARPENTRY & JOINERY WORKS							
		5.1	Ceiling, Walls & Joinery Works						
			Marine plywood (0.00625m x 1.2 m x 2.44m)	pc	100				
			Metal furring joist and hangers and walls						
			19 mm x 50mm x 5m x 0.5mm double furring channel	pc	90				
			1000 mm x 50 mm x 15 mm x 2.0mm x 6m (primary channel)	pc	90				
			25mm x 3m x 0.5mm wall angle	lm	30				
			Rod suspension hanger with adjustment spring	pc	50				
			concrete nails # 1	kg	1				
			5/32" dia. X 1/2" Blind rivets	box	2				
			Pan head screw 12 mm	pc	100				
	6.0	TINSMITHRY / ROOFING							
		6.1	Metal trusses						
			Steel Truss (Angle Bars 2-50mmX50mmx4.5mmx6000mm)	pcs	30				
			(Angle Bars 2-38mmX38mmx4.5mmx6000mm)	set	30				
			Metal Purlins & Girts (C-bar 160X60X20X3mm x 6000mm)	set	30				
			12 mm bars x 6m PRB (round bars grade 60- Sagrod w/nuts/washer)	pc	2				
			Consumables (welding rods,etc.)	lot	1				
		6.2	Roof replacement						
			rib-type pre-painted G.I. Roofing (Gauge 26 Long span)	sq.m.	120				
			stainless gutter, prefab	pcs	10				
			flashing pre-painted, ga.24,g.i. sheets	lm	10				
			sealants	pcs	10				
			roofing hardwares and accessories	lot	1				
			downspouts, PVC 4" pipes and fittings	lot	1				
			Consumables	lot	1				
			<i>sub total</i>						
	7.0	FINISHING WORKS							
		7.1	Floor Finishes						
			plain cement tool finish	sq.m.	120				
			rubberized floor paint	sq.m.	120				
		7.2	Walls						
			plain cement painted plastering finish	sq.m.	240				
		7.3	Ceiling						



			plywood painted finish	sq.m.	120				
		7.4	Paint (interior / exterior)	lot	1				
			wooden surface paint finish						
			concrete surface paint finish						
			epoxy paints / fire resistant paints						
			latex paints (interior /exterior)						
			enamel paints						
			patching items						
			accry & tinting colors						
			extender & binders						
			emulsions						
			<i>sub total</i>						
	8.0	DOORS AND WINDOWS							
		8.1	Doors						
			Type 1 Glass panel doors w/ aluminum framing	sq.m.	9				
			Type 2 Roll up door	set	2				
			Type 3 PVC doors	set	1				
			Type 4 Panel Doors(glass transom on wood)	sqm	3				
		8.2	Windows						
			Type 1 glass panels (awning type)	sqm	10				
			<i>sub total</i>						
	9.0	ELECTRICAL WORKS							
		9.1	General Rewiring, Lightings and Fixtures						
			Panel Board (Nema with CB, 2P, 3 phase, 220V 200AT						
			w/ 6 branches)	lot	1				
			Enclosed Air Circuit breaker,50Af,2P,220V,125 AT, 3Ø	set	2				
			Enclosed Air Circuit breaker,50Af,2P,220V,90AT, 3Ø	set	4				
			Flourescent light (louver type 2 x 48 in)	units	20				
			Spotlight (Dual, Indoor/Outdoor)	set	1				
			22 mm2 THHN	m	500				
			5.5 mm2 THHN	m	500				
			3.5 mm2 THHN	m	500				
			grounding wires and copper rod	lot	1				
			PVC Conduit pipe (3m x 25.4mm D)	pc	50				
			Two gang switch	set	10				
			Duplex Convenience Outlet	set	20				
			Junction Box (Utility box)	pcs	13				
			Consumables (utility line, electric tape fittings, etc.)	lot	1				
	10	HUMIDIFICATION , VENTILATION AND AIR CONDITIONING							
		10.1	Exhaust ,Ventilation System and Air Supply						
			Roof ventilators system	set	2				
			Heavy duty exhaust fan, 12 in fan dia.	sets	2				
			wirings , CB and switches	lot	1				

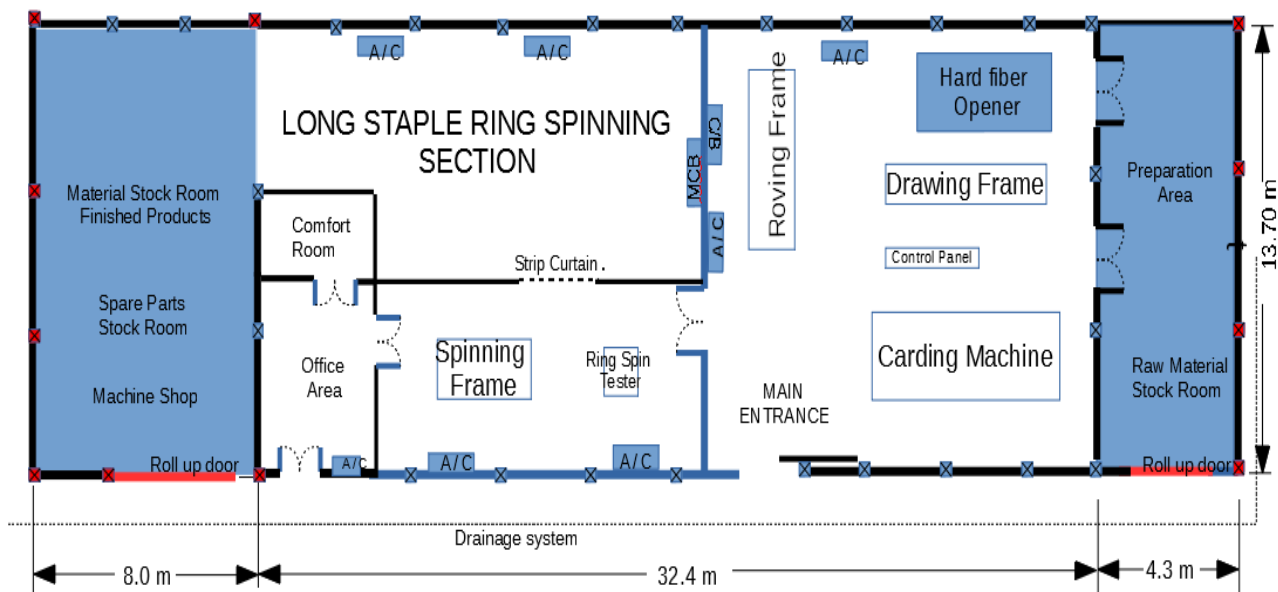


			Portable Humidifiers, 450 Watts, Industrial type	sets	2				
		10.2	Air Conditioning system						
			provision of Packaged type aircon 3 TR A/C	set	2				
			provision of Packaged type aircon 5 TR A/C	set	3				
			<i>sub total</i>						
	11.0	HARDWARES							
		11.1	hardwares and other accessories						
			<i>Storage Cabinet (Light Duty Rack Slotted Angle</i>	set	6				
			Shelves - L:900mm x 1800m / Depth: 300 to 600mm						
			Assorted CW Nails	kg	10				
			hinges (50 mm x 101 mm)	set	6				
			door knobs w/ key	set	4				
			locksets	set	5				
			auto door closers	set	6				
			<i>sub total</i>						
	12.0	CONSTRUCTION SAFETY AND HEALTH							
		12.1	Informatory / warning signs	pcs	5				
			Safety Shoes / Rubber Boots	m/d	628				
			Safety Helmet	m/d	628				
			Safety gloves	m/d	628				
			<i>sub total</i>						

DIRECT COST	Materials	
	Labor	
INDIRECT COST	Profit	
	Contingencies	
TOTAL COST	DIRECT COST + INDIRECT COST	
VALUE ADDED TAX	12 % TOTAL COST	-
TOTAL PROJECT COST		PHP

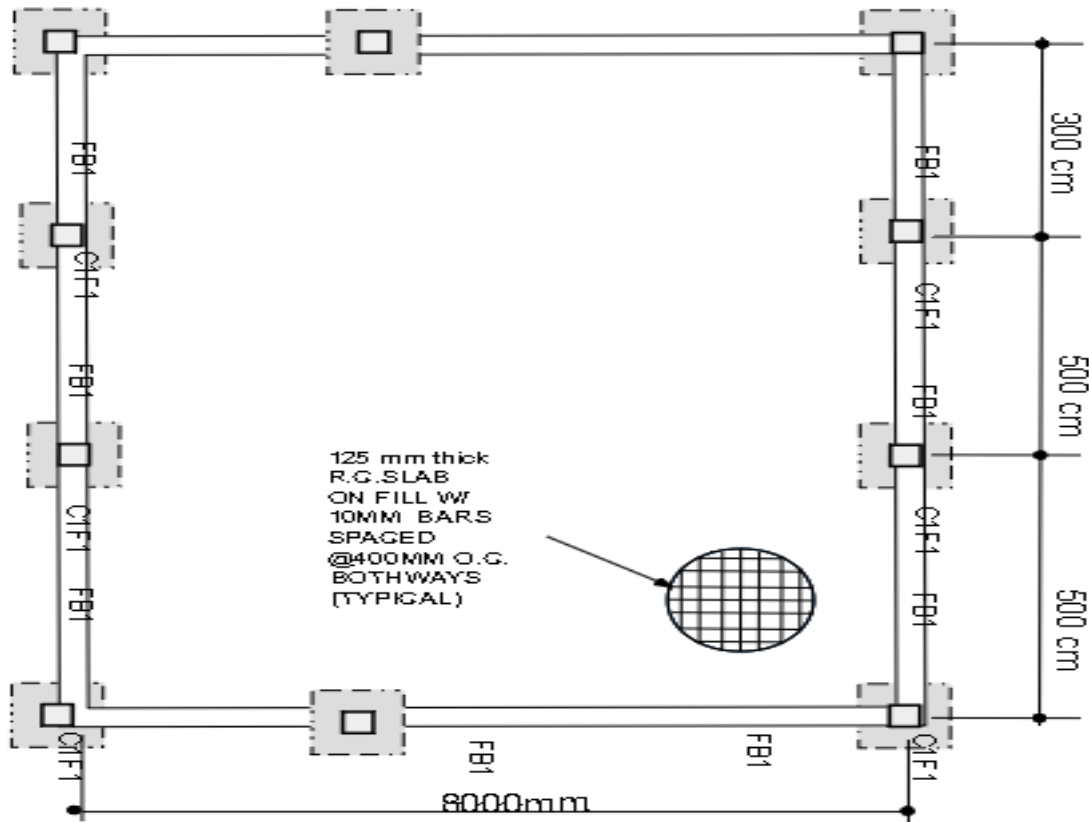
Prepared By :

Name of Contractor



FLOOR PLAN - EXPANSION OF LSFPF BUILDING PHASE II

Not to scale

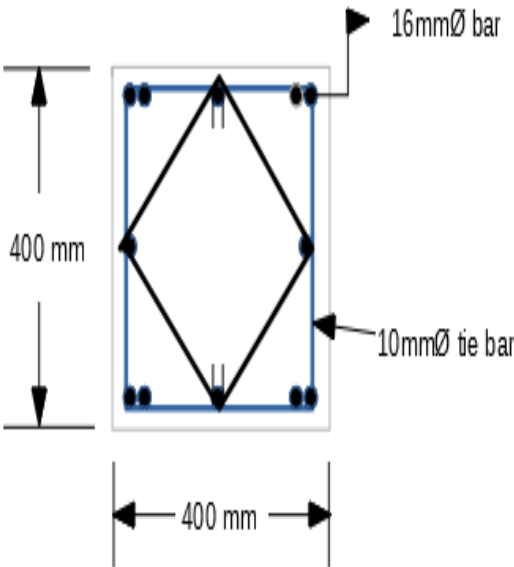


FOUNDATION PLAN LSFPP EXTENSION PHASE II
Not to Scale

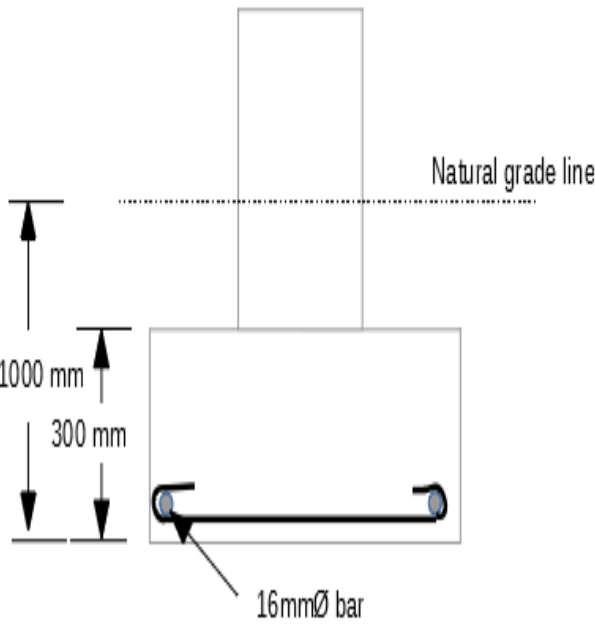
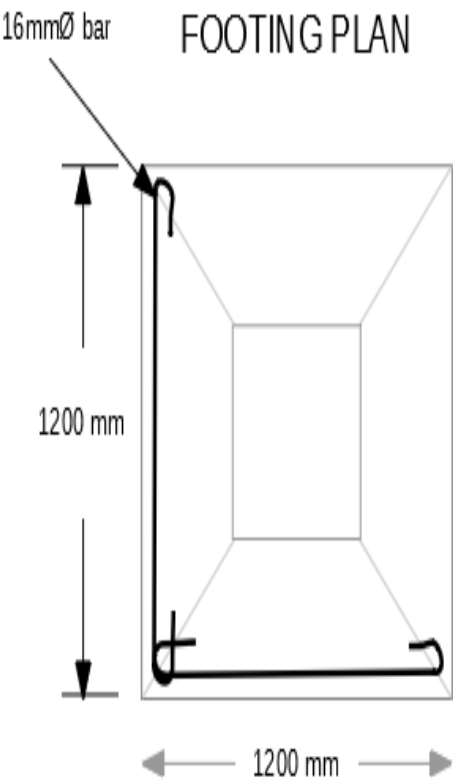


COLUMN PLAN

16 mm Ø @ VERTICAL BARS
with 10 mm Ø ties
1 @ 50mm, 4@100mm, rest@150mm

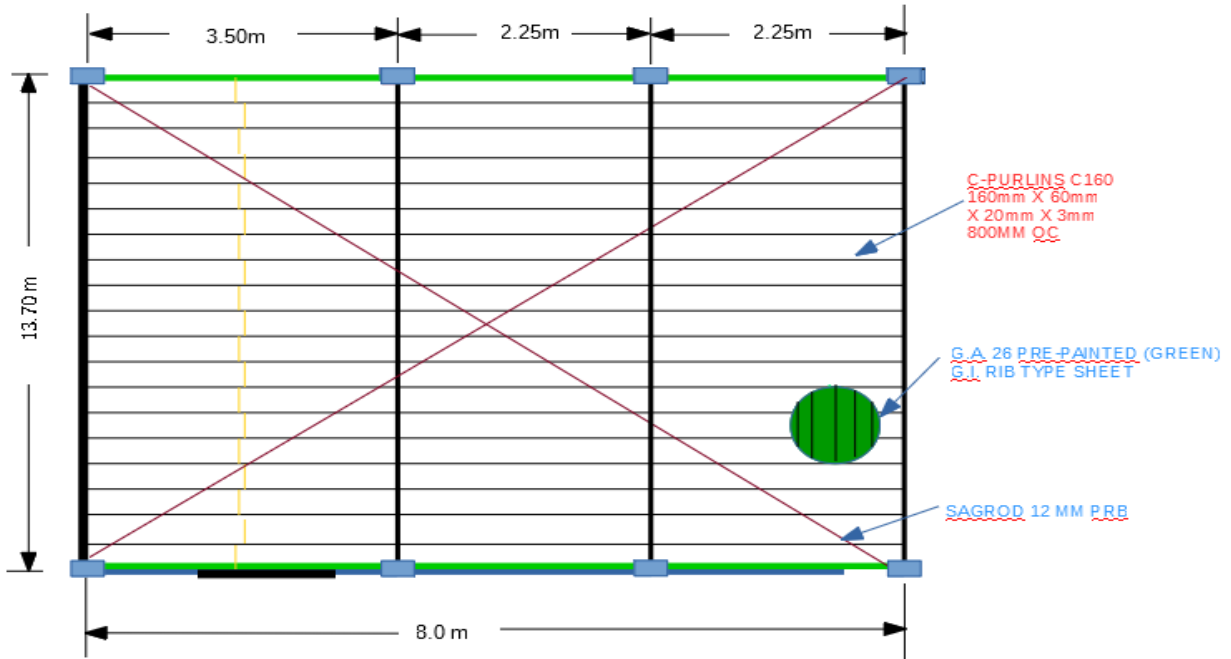


FOOTING PLAN



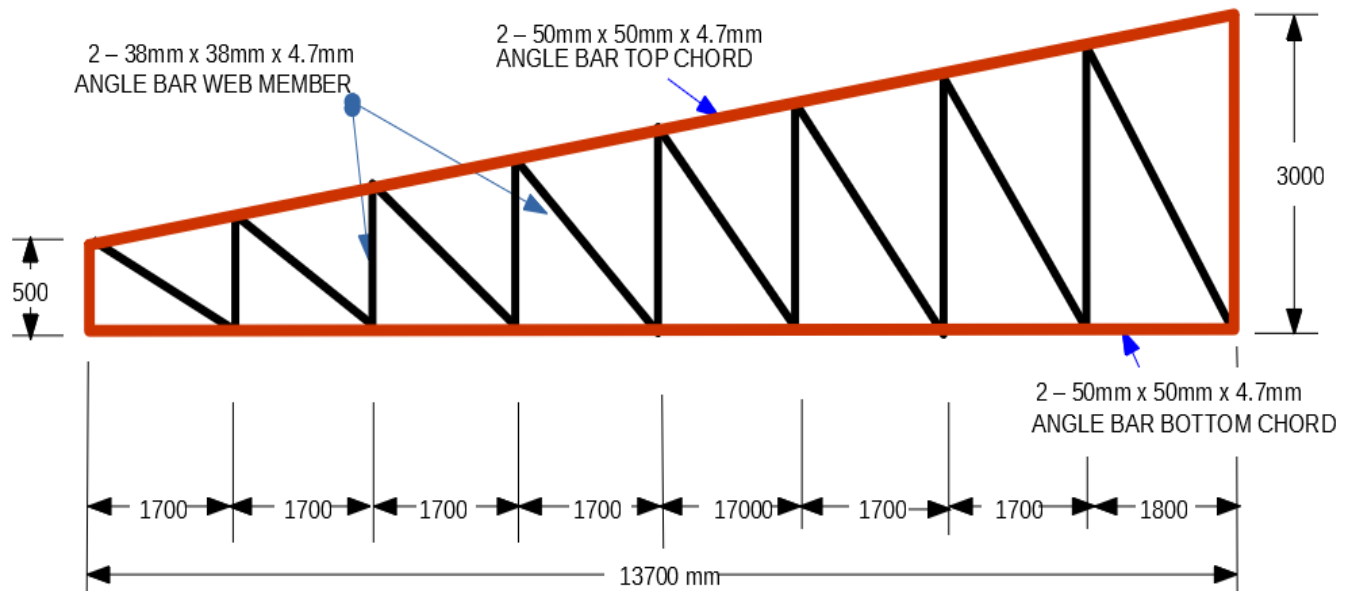


SCHEDULE OF BEAMS								
BEAM MARK	BXH	BAR SUPPORT		BARS @ MIDSPAN		SPACING @ STIRRUPS (10 MM DIA)	BAR ARRANGEMENT	
		TOP	BOTTOM				SUPPORT	MIDSPAN
FB1	200 x 400	4 - 16 mm Ø	2 - 16 mm Ø	2 - 16 mm Ø	4 - 16 mm Ø	1 @ 50mm 4 @100mm Rest 150mm		
B2	200 x 400	4 - 16 mm Ø	2 - 16 mm Ø	2 - 16 mm Ø	4 - 16 mm Ø	1 @ 50mm 4 @100mm Rest 150mm		

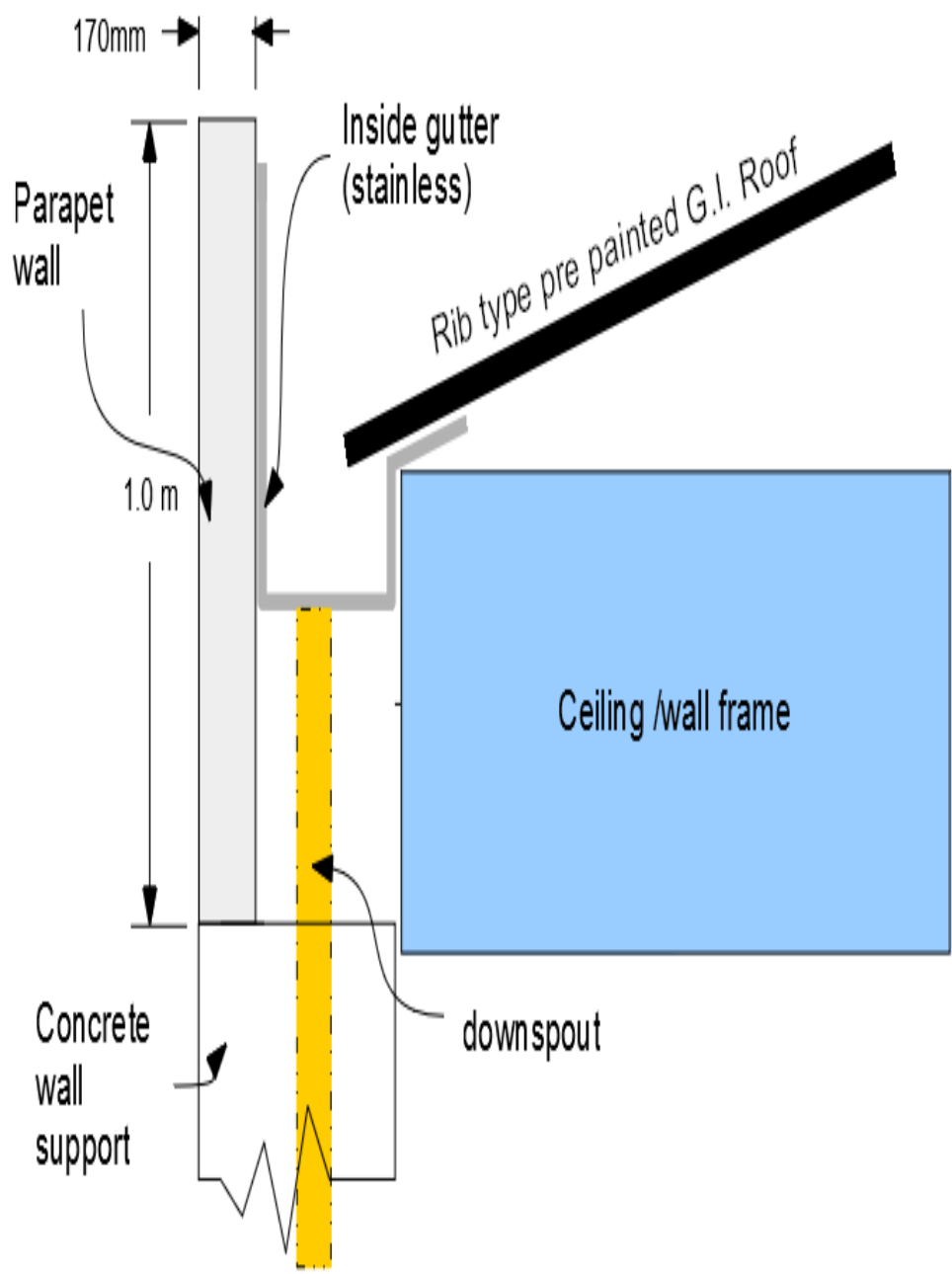


ROOF FRAMING PLAN - EXTENSION AREA OF LSFPP BUILDING

Not to scale



STEEL TRUSS DESIGN FOR LSFPP PHASE II
(Not to scale)



Gutter Assembly and Specifications



Republic of the Philippines
Department of Science and Technology
PHILIPPINE TEXTILE RESEARCH INSTITUTE
General Santos Avenue, Bicutan, Taguig City, Metro Manila
Tel Nos (632)837-2071 to 82 loc. 2360 to 2379 Telefax (632)837-1325
<http://www.ptri.dost.gov.ph>



ISO 9001:2008
Cert No. 01 100 127458



Storage cabinet (Light duty rack Slotted angel bar) as per image style

Shelves size – L : 900 mm

W : 1800 mm

Depth - 300 mm to 600 mm

Shelves type : preferably metal plating



Department of Science and Technology
PHILIPPINE TEXTILE RESEARCH INSTITUTE
APPROVED AGENCY ESTIMATE (AAE)

COST SUMMARY

Project Title **UPGRADING OF THE PTRI'S TECHNOLOGY BUSINESS INCUBATION (TBI) PHASE II**
Location : PTRI Grounds, TBI Building Bicutan, Taguig City
Duration : 140 Calendar days

	SCOPE OF WORKS :	TOTAL AMOUNT
1.0	CIVIL WORKS	
2.0	CONCRETE WORKS	
3.0	REINFORCING BARS	
4.0	MASONRY WORKS	
5.0	CARPENTRY WORKS	
6.0	TINSMITHRY/ROOFING	
7.0	FINISHING WORKS	
8.0	DOORS AND WINDOWS	
9.0	ELECTRICAL WORKS	
10.0	PLUMBING WORKS	
11.0	HARDWARES	

DIRECT COST	(Labor and Material Cost)	
INDIRECT COST	(Profit & Contingencies 15%)	
SUB TOTAL		
VAT	(Value Added Tax 12%)	

TOTAL PROJECT COST

Prepared by :

Name of Contractor



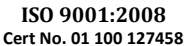
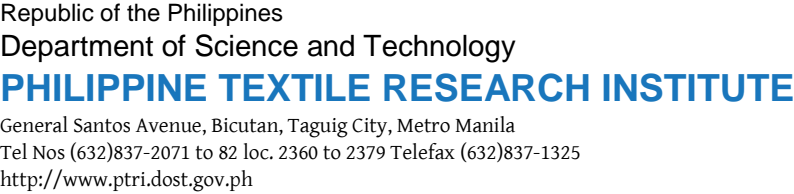
Department of Science and Technology
PHILIPPINE TEXTILE RESEARCH INSTITUTE
APPROVED AGENCY ESTIMATE (AAE)
UPGRADING OF THE PTRI'S TECHNOLOGY BUSINESS
TITLE : **INCUBATION (TBI) PHASE II**
LOCATION : PTRI GROUND , TBI BUILDING
: BICUTAN, TAGUIG CITY
DURATION :
: 120 days

SCOPE OF WORKS : BILL OF QUANTITIES
(Breakdown)

Item		Description	unlt	Qty	Material		Labor	Total
					Unit Cost	Amount	Amount	Amo unt
A	Upgrading and Expansion of TBI Building Phase II				Unit Cost	Total Cost		
	1.0	CIVIL WORKS						
		1.1	Temporary facilities	lot	1			
			construction working shop					
			electrical					
			water storage					
			construction field office					
			construction toilet facilities					
			workers barracks					
		1.2	Demolition / dismantling of existing structure on site					
			chipping works (existing common wall frame - accessway)	lot	1			
			removal of all debris	lot	1			
			sub total					
	2.0	CONCRETE WORKS (including stairwell concrete)						
		2.1	Concrete Columns (3000 psi@7days)	cu.m.	20			
		2.2	Beams (ready mix concrete 3000 psi @14 days)	cu.m.	20			
		2.3	Reinforced Slab on fill 3000 psi (ready mix @14days)	cu.m.	15			
		2.4	Floor toppings (Ground floor 3000psi @14 days)	cu.m.	10			
			sub total					
	3.0	REINFORCING BARS						
		3.1	10 mm Ø x 6 m DRBbars (deformed bars grade 60)	pc	630			
			16 mm Ø x 6 m DRB bars (deformed bars grade 60)	pc	360			
			G.I. Tie wire # 16	kg	50			
			sub total					
	4.0	MASONRY WORKS						



		4.1	CHB Walls, parapet and window louvers and Plastering						
			Cementitious with slurry cement (interior/exterior)	sq.m.	400				
			Concrete Masonry Units (load bearing)						
			100 mm thick CHB (101mm x 203mm x 406mm)	pc	400				
			150 mm thick CHB (150mm x 203mm x 406mm)	pc	1800				
			10 mm dia x 6 m (stirrups)	pcs	40				
			Consumables	lot	1				
		4.2	Provision for Rest Room and Countertop Pantry						
			Gravel	cu.m.	2				
			Sand	cu.m.	2				
			Portland cement	bags	20				
			10 mm bars	kg	30				
			Granite tiles 300 x 300 (glazed)	sq.m.	10				
			Tile adhesive	gal	4				
			Ready fix	gal	2				
			Tile grout	kg	1				
			Stainless faucet	set	3				
			PVC Moldex blue, 1/2" dia. Pipe	pc	10				
			PVC 2" dia. Pipe Sanimold waste waterline	pc	10				
			Consumables, ASSORTED FITTINGS	lot	1				
	5.0	CARPENTRY WORKS							
		5.1	Provision of double wall partition (office partition)						
			Hardiflex 1.20m x 2.40m x 4.5mm (FCCB)	Lm	200				
			Metal Furring (19mm x 50mm x 0.5mm x 5m double furring channel)	pc	200				
			Consumables	lot	1				
			sub total						
	6.0	TINSMITHRY / ROOFING							
		6.1	Provision of Metal trusses (new structure - Extension)						
			Steel Truss (Angle Bars 2- 38mmX38mmx5mm)	set	5				
			Metal Purlins & Girts (C-bar 160X60X20X3mm x 6000mm)	set	16				
			12 mm bars (polished round bars grade 60) - Sag Rod	kg	40				
			Consumables	lot	1				
		6.2	Metal Roofing and gutter and downspouts						
			G.I. Rib Type Roofing Sheet (Pre-	sq.m.	180				

[illegible]



		9.0	ELECTRICAL WORKS						
		9.1	Electrical connections, Grounding , Lighting and Fixtures						
			Flourescent lights w/ louver type 2 x 36 in	units	12				
			Spot light dual bulb led bulbs	set	1				
			5.5 mm2 THHN	m	100				
			3.5 mm2 THHN	m	100				
			Circuit breakers 220V, 100 AT with box NEMA	set	1				
			Circuit breakers 220V, 60 AT with box NEMA	set	1				
			Grounding Electrode (copper rod)	pcs	1				
			PVC conduit (3m x 25.4mm D)	pcs	8				
			Two gang Switch	set	4				
			Duplex Convenience Outlet	set	4				
			Junction Box	pcs	4				
			Consumables	lot	1				
		9.2	Exhaust ,Ventilation System and Air Supply and Airconditioning,CCTV						
			Provision for PLDT connections	lot	1				
			Wall Exhaust Fan	pc	2				
			Provision of Window type Aircon 3 hp inverter type	sets	1				
			sub total						
		10	PLUMBING WORKS						
		10.1	Water Supply line						
			12.7 mm Ø x 6m GI Pipe - S40	pcs	2				
			12.7 mm Ø x 6m GI Elbow - S40	pcs	4				
			12.7 mm Ø x 6m GI Coupling - S40	pcs	3				
			GI. Gate Valve 12.7 mm Ø	pcs	2				
			PVC Gate Valve 12.7 mm Ø	pcs	2				
			12.7 mm Ø x 6m GI Tee - S40	pcs	2				
			Teflon tape	roll	10				
			Bathroom Wash set	set	1				
			Ceramic Toilet bowl with cover	pc	1				
			Bathroom Bidet hand spray	pc	1				
			Bathroom Ceramic Sink	pc	1				
			Single Faucet with Telephone Shower	pc	1				
			Lavatory Faucet	pc	2				



			Stainless Sink	pc	1				
			Teflon tape	roll	20				
			<i>SUB-TOTAL</i>						
	11.0	HARDWARES							
		11.1	Hardwares and other accessories						
			Pan head screw 12mm	pc	170				
			bolts and nuts and screws	kg	3				
			Assorted CW nails , roofing screw	kg	2				
			hinges (50mm x 101 mm)	set	6				
			door knobs	set	2				
			locksets	set	2				
			G.I. Wires no.12	kg	10				
			<i>sub total</i>						

TOTAL DIRECT COST

INDIRECT COST _____

TOTAL COST

VALUE ADDED TAX _____

TOTAL PROJECT COST	
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Prepared by :

Name of Contracor