

Work Order

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

22-1553 FF

Supplier :	NSB ENGINEERING DESIGN AND FABRICATION	W.O. No. :	GIA-WO-2022-11-0254(EBD)
Address :	309 M.L Quezon St. Lower Bicutan Taguig City	Date :	December 07, 2022
TIN :	165-226-163-000	Mode of Procurement : PUBLIC BIDDING	

Gentlemen:
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery :	Misamis Oriental Provincial Agriculture Complex Sitio Lupok, Ane-I, Claveria Misamis Oriental (Region 10) and Zamboanga State College of Marine Science, Science and Technology-Main Campus Fort Pilar, Rio Hondo Zamboanga City (Region 9)	Delivery Term : 90CD
Date of Delivery :		Payment Term :

Stock/ Property No.	Unit		Quantity	Unit Cost	Amount
1	unit	Truck 10 Wheeler 32 footer Truck-32 ft x 8ft x 8ft(L x W x H) -with vehicle comprehensive and TPL insurance for 2 years -Includes LTO pre-registration Engine Type: Euro IV or Better Power: 200-26-KW/ 1900-2400 RPM Displacement: 7-11Liters Torque: 1400-1800 Newton-Meter Max Gradeability:28-30% Rated Payload: 16,000-26,000kg Fuel Tank Capacity: 320-400L	2	11,275,000.00	22,550,000.00
2	lot	Customization of Truck A. Packaging Room- 4.13 sq.m.(See Appendix 1&2.1) -Framing (includes prep, primer, final coat) -walls and ceilings, PVDF Coated Aluminum Composite Panel(ACP)/Gel-Coated Fiberglass Reinforced Panel (FRP) with Polyurethane insulation or approved equivalent -1 hp window type inverter ACU(brackets and support) -1 unit Stainless steel movable table with lock 0.8mx0.6mx0.75m(LxWxH) -Flooring:3mm, SS 304 plate with Non-slip, epoxy resin coating(or any approved equivalent food gade coating) -Consumables and miscellaneous (SS rivet, sealant etc.)	1		
	lot	B. Main Body- 19.67 sq.m.(see Appendix 1 & 2.1) -Partition walls and ceilings-PVDF Coated Aluminum Composite Panel (ACP)/ Gel-Coated Fiberglass Reinforced Panel(FRP) with polyurethane insulation or approved equivalent -Framing (includes, prep, primer, final coat) -Floors: 3mm ss 304 plate with non-slip, epoxy resin coating (or any approved equivalent food gade coating), sloping 1 cm per every linear master of length leading down towards the drainage canal -Supply and installation of Automated Tail Gate Lifter with at least 0.5 tons lifting capacity -1 unit Stainless steel movable table with lock 1.6mx0.6x0.6m (LxWxH) -Consumables and miscellaneous (SS,rivet,etc.)	1		

SUB TOTAL

22,550,000.00

Customization of Expansion (See Appendix 3.1 to 3.4)

lot	A. Expansion #1 (E1): 3.66m (L) x 1.22m(H), 76.22mm thickness (Flooring) -Framing(Includes prep, primer, final coat) -4mm, SS 304 plate with non-slip, epoxy resin coating(or any approved equivalent food grade coating), sloping 1 cm per every linear meter of length leading down towards the drainage canal -ACP/FRP with polyurethane insulation and backer rod or approved equivalent (exterior) -Consumables and miscellaneous (SS,Rivet,etc.)	1
lot	B. Expansion #2 (E2): 3.66m (L) x 1.22m(H). 50.8mm thickness(walls) -Framing(Includes prep, primer, final coat) -ACP/FRP with polyurethane insulation and backer rod or approved equivalent -Sliding window (fiber glass) with 1.6m (L) X 0.6m(H) equipped with screen mesh 20 and treated aluminum framing (4sets) -Consumables and miscellaneous (SS rivet, sealant etc.)	1
lot	C. Expansion #3 (E3): 3.66m (L)x 1.22m (H), 50.8mm thickness (lower wall) -Framing (includes prep, primer, final coat) -ACP/FRP with polyurethane insulation and backer rod or approved equivalent -Window (awning type) Fiberglass or approved equivalent with treated aluminum framing 0.6mx0.6m(1set) -Window(awning type) fiberglass or approved equivalent treated aluminum framing 0.6mx1.0m (1set) -Consumables and miscellaneous (ss rivet, sealant,etc.)	1
lot	D. Expansion #4 (E4): 3.66m(L) x 1.22m(h),76.2mm Thickness(ceiling) -framing(includes prep, primer, final coat) -ACP/FRP with polyurethane insulation and backer rod or approved equivalent -Consumables and miscellaneous(SS rivet,et.)	1
lot	E. Expansion #5 (E5): 1.22m (L) x 2.4m (H), 50.0mm thickness (Side wall) -framing (includes prep, primer, final coat) -ACP/FRP with polyurethane insulation and backer rod of approved equivalent -Consumables and miscellaneous (SS rivet,etc.)	1
lot	F. MECHANISM FOR EXPANSION -Folding Mechanisim -Hydraulic/Pneumatic Systems or any approved equivalent systems -others(pls.specify)	
4	SUPPLY AND INSTALLATION OF DOORS, STAIRS AND PLATFORM-See Appendix 1.2 to 1.5	
set	A. Door #1:2.1m(H) x 0.7m (W), 50mm thickness, ACP or approved equivalent, with door knob, door jamb and hinges with aluminum framing(See Appendix 1.3)	5
set	B. Door #2:2.1m (H) x 0.9m (W), 50mm Thickness, ACP or approved equivalent, with door knob, door jamb and hinges with aluminum framing (see appendix 1.3)	1
set	C. Door #3 2.1m(H) x 2.0m (W), 50mm thickness, ACP or approved equivalent, two door opening, at the center, with aluminum framing (see Appendix 1.3)	1
set	D. With 0.7m (W) detachable stairs with handle(see appendix 1.4)	2
pc	E. Platform with railings (2.5mx0.67m) (See Appendix 1.5)	1
lot	F.Consumables and Miscellaneous	

5		Supply and installation of detachable food grade plastic curtains-See apendix 4.1& 4.2		
	strip	A. Plastic Curtain #1: Detachable at Door 1: Dimension: with 2.1m (H) x 0.7m(W)	10	
	strip	B. Plastic Curtain #2: Detachable at Waste Material Exit Window/Chute: 0.6m (H) x 0.6m (W)	5	
	strip	C. Plastic Curtain #3: Detachable at Raw Materials Entrance Window/Chute; Dimension: 0.6m (H) x 1.0m(W)	6	
	strip	D. Plastic Curtain #4: Magnetic/Detachable to serve as an enclosure for pre-processing area: Dimensions: 2.45m (H) x 1.22m(W)	8	
6		E. Consumables and miscellaneous Electrical Works (See appendix 5.1 to 5.3)		
	sets	A. 1-22W LED Tube light with dustproof, vapor tight, IP65 housing/enclosure	10	
	set	B. LED Circular Slim Downlight,12W	1	
	pcs	C. Universal Convenience Outlet, Duplex, 3-prong 15A, 220v	7	
	pc	D. 1 gang Aircon outlet,20A	1	
	sets	E. Twistlock outlet and plug set, 2P+E, 40A	3	
	sets	F. Twistlock outlet and plug set, 2P+E, 30A	3	
	pcs	G. 1-gang switch	2	
	pc	H. 2-gang switch	2	
	pcs	I. Utility Box	18	
	pcs	J. Junction Box with Cover	35	
	m	K. 3.5mm ² THWN Wire,(Black, White,Green)	450	
	m	L. 5.5mm ² THWN Wire(Black, White, Red)	150	
	m	M. 8.0mm ² THWN Wire (Black, White)	66	
	m	N. 22mm ² THWN Wire (Green)	30	
	m	O. 80mm ² THWM Wire, (Black,White)	60	
	lgts	P.20mmØ PVC, 3m per length	38	
	lgts	Q. 25mmØ PVC,3m per length	12	
	pcs	R.20mmØ PVC adapter with locknut and bushing	8	
	pcs	S.25mmØ PVC adapter with locknuut and bushing	18	
	m	T.50mmØ Liquidtight Flexible Metal Conduit	30	
	pcs	U. 50mmØ Liquidtight Flexible Metal Conduit Connector with locknut	2	
	assy	V. PANEL Board PP: Main 200AT, 225AF, 2P + G, 230V, MCCB; 12 Branches: 3-50AT 2P, 3-40AT 2P, 6-20AT 2P MCB, with grounding terminal	1	
	assy	W. Manual Transfer Swtich (MTS) 200 Amps, 2 poles	1	
	assy	X. -Includes consumables and other mescellaneous items such as: hanger and supports, Flexible metalic conduit, Ground rod, mica tube, labels, minor tools and equipment and electrical tape,etc.	1	
61A-WO-2022-12-0254 0800			SUB TOTAL	22,550,000.00

VII.	SUPPLY AND INSTALLATION OF WATER SUPPLY SYSTEM (See Appendix 5.1 & 5.2)			
A.	25mmØ PPR pipes or approved equivalent (8m in length) Note: Additional on riser approximately 1m from the floor line to stubout	3.00	pc	
B.	Water Meter (with calibration certificate)	1.00	pc	
C.	25mmØ PPR Check Valve	1.00	pc	
D.	25mmØ PPR Gate Valve	5.00	pcs	
E.	25mmØ PPR Elbow	3.00	pcs	
F.	25mmØ PPR Tee	5.00	pcs	
G.	25mmØ Flexible Hose	4.00	m	
H.	PPR Reducer 1" x 3/2"	1.00	pc	
I.	25mmØ PPR Coupling	5.00	pcs	
J.	Includes SS 304 washing sink (50cm L x 50cm W x 100cm H) - See Appendix 5.2	2.00	unit	
K.	Includes consumables and other miscellaneous (brackets etc) Sub-total 9	1.00	lot	
VIII.	SUPPLY AND INSTALLATION OF DRAINAGE SYSTEM (See Appendix 7.1 & 7.2)			
A.	50mmØ PVC orange pipes or approved equivalent (9m in length) Note: Additional on riser approximately 1m from the floor line to floor drain	4.00	pcs	
B.	50mmØ PVC End Cap orange	1.00	pcs	
C.	50mmØ PVC Tee orange	4.00	pcs	
D.	50mmØ PVC Floor Cleanout	4.00	pcs	
E.	Stainless Steel Floor Drain 4" (L) x 4" (W)	4.00	pcs	
F.	A-Trap	4.00	pcs	
G.	Includes consumables and other miscellaneous (solvent cement etc)	1.00	lot	
H.	Includes testing and commissioning Sub-total 9			
IX.	SUPPLY AND INSTALLATION OF EQUIPMENT BOLTS & STRAP (See Appendix 8)			
A.	Stainless Steel Hook Pad Eye 60mmx50mmx3mm plate with mounting screws	10.00	set	
B.	Ratchet Tie Down Strap for Equipment: 2 inches width 10m long, heavy duty, high tension strap to support equipment during transport - For dryers, 2 pairs of hook pad eye and strap must be installed; at 0.5m from the top portion and 0.5m from the bottom portion. - For other equipment, hook pad eye and strap must be located at the middle portion in reference to the equipment height - Includes consumables and other miscellaneous Sub-total 10	10.00	pcs	
		2.00	lot	
X.	FOOTINGS (See Appendix 9)			
A.	Adjustable Jack stand (truck trailer stabilizer) - with adjustable screw (jack height up 1.20 meters with rubber lining) - can stand at least 10 tons of load per expansion side - preferably made of stainless steel (SS 304) or approved equivalent - Certification for load bearing capacity (need for testing) Sub-total 11	35.00	pcs	
XI.	SUPPLY AND INSTALLATION OF GAS LINE (See Appendix 10) Piping and Accessories:			
G/A-WO-2022-12-0254 P&D		SUB TOTAL		22,550,000.00

A.	25mmØ Seamless B.I. Pipe Schedule	40.00	m
B.	25mmØ Pressure Gauge with Relief Valve	1.00	pc
C.	25mmØ Isolation valve	1.00	pc
D.	25mmØ Solenoid Valve	1.00	pc
E.	25mmØ Y-Strainer	1.00	pc
F.	3mm x 25mm Bottom Stock Steel Plate	4.00	pc
G.	6mmØ Dyna bolt - to clamp the LPG pipe	8.00	pc
H.	2" Angle Bar, 2.5mm thick - for framing of LPG Tank	4.00	pc
I.	Includes testing and commissioning	1.00	lot
J.	Includes consumables and other miscellaneous items		
Sub-total 11			

XII. SUPPLY AND INSTALLATION OF EXHAUST AND VENTILATING SYSTEM (See Appendix 11.1 to 11.5)			
A.	Stainless Steel Sheet Gauge 18 (6.5m L x 4.5m W) - to be cut based on the reference drawing	1.00	set
B.	Stainless Steel Grilles on the inside (6m L x 0.45m W)	1.00	set
C.	Stainless Steel kitchen Hood is bolted on the wall - See Appendix 10.2	1.00	lot
D.	Stainless steel collar with expansion shield	1.00	pcs
E.	Supply and installation of 12" Exhaust Fan	2.00	pcs
F.	Aluminum Flexible Pipe Vent Hose (2.5"Ø) - 3m per length	5.00	lgts
H.	Pipe Metal Flange Ducting Hose Connector - Type B (2.5"Ø)	2.00	pcs
H.	Pipe Metal Flange Ducting Hose Connector - Type C (2.5"Ø)	1.00	pcs
I.	Stainless Steel Wall Ceiling Air Vent with Exhaust Grille Cover Outlet Waterproof	1.00	pcs
J.	Includes consumables and other miscellaneous items	1.00	lot
Sub-total 12			

XIII. COVINGS (See Appendix 12)			
A.	Wall joints or corners where walls meet must have a coving with a radius of 25 mm - Preferably detachable covings on non fixed walls of the trucks. - Rubber type or Silicone Type gasket covings	50.00	m
B.	Includes consumables and other miscellaneous items	1.00	lot
Sub-total 13			

XIV. OTHERS (See Appendix 13-17)			
A.	As Built Plans, Signed and Sealed (Architectural, Mechanical, Electrical, Electronics, Sanitary, etc.)	1.00	LOT
B.	Foldable type cabinets - 0.80x0.40x1.78m (LxWxH) located at packaging room and pre-processing area - See Appendix 13	2.00	unit
C.	CCTV monitoring system includes 5 units of HD CCTV (IP Camera) with video and surveillance footage up to 1080p/2 Megapixels HD resolution, 2.8mm to 13mm Motorized Zoom Lens, 12 DC Power Output, Ceiling or wall mounted including at least 24" wall mounted monitor and peripherals and Full HD Flat Screen TV with 8-Channel Network Video Recorder (NVR) (1080p) 1920 x 1080 pixels, 36" Screen - See Appendix 14	1.00	lot
D.	Smoke Detector System, battery operated - See Appendix 15	5.00	pcs
E.	Global Positioning System / Anti-drift tracking device (includes repair and maintenance)	1.00	lot
F.	Portable water storage tank with enclosure and steel pallet (1 cubic meter capacity)	2.00	unit
G.	Heavy duty Pallet truck, 3 ton capacity with 2 years warranty - See Appendix 16	1.00	unit
H.	Heavy duty Push cart, at least 300kg capacity - See Appendix 17	1.00	unit
I.	Fire Extinguisher (Type K - Wet Chemical) 10lbs	2.00	pc
J.	Fire Extinguisher (Dry Chemical) 30lbs	2.00	pcs
Sub-total 14			

XV. EQUIPMENT TRANSFER			
A.	Inclusive of hauling services, freight cost and other applicable expenditures to transfer equipment from DOST-ITCR to supplier's site.	1.00	lot
Sub-total 15			

XVI. DEPLOYMENT TO REGION			
A.	Freight Cost from port to specified delivery address: Date of Deployment: 2nd week of November 2022 TRUCK #1: Location: Misamis Oriental Provincial Agriculture Complex Sitio Lupok, Ane-I, Civeria Misamis Oriental (REGION 10) TRUCK #2: Location: Zamboanga State College of Marine Science Science and Technology - Main Campus Fort Pilar, Rio Hando Zamboanga City (REGION 8) *Supplier to provide/hire truck driver as needed	1.00	lot
Sub-total 16			

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22,550,000.00

XVII. FUNCTIONAL/ PERFORMANCE TEST			
A. Inclusive of at least one (1) dry run and one (1) wet run of MMFPF truck at:			
1) Supplier's Site (before deployment)	1.00	lot	
2) Regional Site (after deployment)			
Sub-total 17			
XVIII. SUPPLY AND INSTALLATION OF EXTERNAL DESIGN			
A. Glossy vinyl decal stickers/design (or approved equivalent) and its installation			
-Design to be provided by DOST-ITDI and should reflect in both expanded and unexpanded state of the truck	1.00	lot	
Sub-total 18			
XIX. WARRANTY AND INSURANCE			
A. To include insurance of the truck and all equipment parts (see attached TOR)			
B. To include at least 1 year warranty (parts and services) on the MMFPF Truck	1.00	lot	
Sub-total 19	1.00	lot	
SUMMARY COST OF MATERIALS AND LABOR			
I. TRUCK			
II. CUSTOMIZATION OF TRUCK			
III. CUSTOMIZATION OF EXPANSION (See Appendix 3.1 to 3.4)			
IV. SUPPLY AND INSTALLATION OF DOORS, STAIRS AND PLATFORM - See Appendix 1.2 to 1.5			
V. SUPPLY AND INSTALLATION OF DETACHABLE FOOD GRADE PLASTIC CURTAINS - See Appendix 4.1 & 4.2			
VI. ELECTRICAL WORKS (See Appendix 5.1 to 5.3)			
VII. SUPPLY AND INSTALLATION OF WATER SUPPLY SYSTEM (See Appendix 6.1 & 6.2)			
VIII. SUPPLY AND INSTALLATION OF DRAINAGE SYSTEM (See Appendix 7.1 & 7.2)			
IX. SUPPLY AND INSTALLATION OF EQUIPMENT BOLTS & STRAP (See Appendix 8)			
X. FOOTINGS (See Appendix 9)			
XI. SUPPLY AND INSTALLATION OF GAS LINE (See Appendix 10)			
XII. SUPPLY AND INSTALLATION OF EXHAUST AND VENTILATING SYSTEM (See Appendix 11.1 to 11.3)			
XIII. COVERINGS (See Appendix 12)			
XIV. OTHERS (See Appendix 13-17)			
XV. EQUIPMENT TRANSFER			
XVI. DEPLOYMENT TO REGION			
XVII. FUNCTIONAL/ PERFORMANCE TEST			
XVIII. SUPPLY AND INSTALLATION OF EXTERNAL DESIGN			
XIX. WARRANTY AND INSURANCE			
1. TOTAL DIRECT COST			
2. INDIRECT COST (15% of Direct Cost)			
3. 12% VAT			
4. TOTAL PROJECT COST			

END USER:	Engr. Reynaldo L. Esguerra	Less: VAT	1,006,696.42 ³	22,550,000.00
		EWT	402,678.57	1,409,374.99 ⁵⁰⁰
		total		21,140,625.01⁶

(Total Amount in Words) Twenty One Million One Hundred Forty Thousand Six Hundred Twenty Five Pesos & 01/100

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s.

Conforme:

EMAILED
 Signature over Printed Name of Supplier: KENDRICK S. OCAÑA
 Date: 01/09/23
 Recipient: _____
 Date: 1-9-23 Time: _____

Very truly yours,
 Signature over Printed Name of Authorized Official: DR. ANNABELLE V. BRIONES
 Director Designation: PM12

Fund Cluster : 61A-WD-2022-12-0254 680
 DOST- GIA: MMFPF PROJECT
 Funds Available : _____
 Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit: PATRICIA ASHLEY M. MENDOZA
 Accountant II

ORS/BURS No. : FC02022/23300
 Date of the ORS/BURS: _____
 Amount : 22,550,000.00

Tri: PM12/23/2023