

**Purchase Order**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Appendix 61

Supplier:	<b>NSB ENGINEERING DESIGN AND FABRICATION</b>	P.O. No.:	<b>GIAE-PO-2024-01-0016 (EBD)</b>
Address:	309 M.L. Quezon St., Lower Bicutan, Taguig City	Date:	<b>January 18, 2024</b>
TIN:		Mode of Procurement:	PB

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

Place of Delivery:	NATIONAL METROLOGY DIVISION	Delivery Term:	90 CD
Date of Delivery:		Payment Term:	

Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
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		<b>SUPPLY, FABRICATION, INSTALLATION, AND DELIVERY OF ONE (1) UNIT 32 FOOTER CUSTOMIZED TRUCK (ASEPTIC MODULE) - MOBILE MODULAR FOOD PROCESSING FACILITY (MMFPF)</b>			<b>12,000,000.00</b>
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**I. TRUCK**

**A. Truck Specifications:**

1. Brand New 10 Wheeler 32 Footer Truck - 32 ft x 8ft x 8 ft (L x W x H)

Truck Specifications:

Engine Type: Euro IV or better

Manual Transmission

Power: 200-260KW / 1900-2400 RPM

Displacement: 7-11 Liters

Torque: 1400-1800 Newton-meter

Max Gradeability: 28-30%

Rated Payload: 16,000-26,000kg

Fuel tank Capacity: 320-400L

Fuel: Diesel

-Includes LTO pre-registration

-With vehicle comprehensive insurance for one (1) year

-Inclusive of early warning devices

-Inclusive of basic tools for repair and maintenance

**II. CUSTOMIZATION OF TRUCK**

**B. Main Body – 23.80 sq.m (See Appendix 1)**

-Roofing and ceilings: 1mm SS 304 with polyurethane insulation or approved equivalent

-Framing (includes prep, primer, final coat)



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		<p>-Floors: 3mm. SS 304 checkered plate (brushed or matte finish), sloping 1 cm per every linear meter of length leading down towards the drainage canal</p> <p>- Supply and installation of Automated Tail Gate Lifter with at least 1500 kg load capacity</p> <p>- Include 1 (one) collapsible stainless steel table with caster wheel and lock (1200 x 600 mm)</p> <p>-Inclusion of - 1 hp window type Inverter ACU (brackets and support) – with 1 year warranty on the ACU located at the expansion part, detachable</p> <p>-Includes consumables and miscellaneous (SS rivet, etc.)</p> <p><b>III. CUSTOMIZATION OF EXPANSION</b></p> <p><b>A. Expansion #1 (E1): Flooring</b></p> <p>-Expansion #1 (E1): 4.88 (L) x 1.22m (H), 76.2mm thickness</p> <p>-Framing (includes prep, primer, final coat)</p> <p>-SS 304 polyurethane insulation and backer rod</p> <p>-Floors: 3mm. SS304 checkered plate (brushed or matte finish), sloping 1cm per every linear meter of length leading down towards the drainage canal</p> <p>- Consumables and miscellaneous (SS rivet, etc.)</p> <p><b>B. Expansion #2 (E2): Side Wall</b></p> <p>- Expansion #2 (E2): 4.88m (L) x 1.22m (H), 50.8mm thickness</p> <p>-Framing (includes prep, primer, final coat)</p> <p>- SS 304 with polyurethane insulation and backer rod</p> <p>-Window (awning type) flexi-acrylic glass or approved equivalent treated white aluminum framing 4.5 x 1 m equipped with screen mesh 20 (4 sets); equipped with snap lock</p> <p>-Includes consumables and miscellaneous (SS rivet, etc.)</p> <p><b>C. Expansion #3 (E3): Side wall</b></p> <p>-Expansion #3 (E3): 4.88m (L) x 1.22m (H), 50.8mm thickness (Side Wall)</p>				



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- Framing (includes prep, primer, final coat)
- SS 304 with polyurethane insulation and backer rod
- With SS 304 door with 2m (L) X 0.7m (W) deadbolt type lock with overhead door closer; has a door handle inside
- Includes consumables and miscellaneous (SS rivet, sealant, etc.)
- D. Expansion #4 (E4): Ceiling**
- Expansion #4 (E4): 4.88m (L) x 1.22m (H), 50.8mm thickness
- Framing (includes prep, primer, final coat)
- SS 304 with polyurethane insulation and backer rod or approved equivalent
- Includes consumables and miscellaneous (SS rivet, etc.)
- E. Expansion #5 (E5): Side Wall**
- Expansion #5 (E5): 2.44m (L) x 1.22m (H), 50.8mm thickness
- Framing (includes prep, primer, final coat)
- SS 304 with polyurethane insulation and backer rod or approved equivalent
- Includes two doors on two panel on the side wall
- Endorsement Window (casement type hinged on the side) or approved equivalent treated aluminum framing 0.4 x 0.6 m with 2 layers of screen with different sizes
- With SS 304 door with 2.1m (L) X 0.9m (W) deadbolt type lock with overhead door closer; has a door handle inside (2 sets)
- Includes consumables and miscellaneous (SS rivet, etc.)
- F. Mechanism for Expansion**
- Folding mechanism
- Winch mechanism on specified locations

**IV. SUPPLY AND INSTALLATION OF DOORS, STAIRS AND PLATFORM (Appendix 2)**

**A.) Supply and Installation of Doors, Stairs and Platform**





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-Door #1: 2.0m (H) x 0.8m (W), 50mm thickness, SS 304, with dead bolt type lock/equipped with door closer (Changing Room Area)

-Door #2: 2.1m (H) x 2.0m (W), 50mm thickness, SS 304 or approved equivalent, two door opening, at the center, with aluminum framing (Rear Side or Equipment Loading Bay)

-Door #3: 2.1m (H) x 0.9m (W), 50mm thickness, SS 304 with dead bolt type lock equipped with door closer (Side Wall)

-With SS 304 collapsible stairs

-Platform with railings

**V. SUPPLY AND INSTALLATION OF DETACHABLE FOOD GRADE PLASTIC CURTAINS AND PVC ACCORDION**

Supply and Installation of complete set detachable food grade plastic curtains and accordions

(includes hanging rails and other accessories)

Specs: Yellow (Endorsement window and Discharge Doors), Clear (all curtains inside main processing area), 2mm (Thickness)

Location: (See Appendix)

-Plastic Curtain 1 (PC1) : 1.3m Length -- Color Clear (2 sets)

-Plastic Curtain 2 (PC2) : 0.9m Length -- Color Yellow (1 set)

-Plastic Curtain 3 (PC3) : 1m Length -- Color Yellow (2 sets) -- Door Entrance and Exit

-PVC type Accordions (PA1): Detachable at Changing Area; Dimension: 1.2m Length (1 set)

-Plastic Accordions (PA1): Fixed at Filling Area; Dimension: 2.4m Length (1 set)

-Plastic Accordions (PA2): Changing Area; Dimension: 2.0m Length (1 set)

-Includes consumables and miscellaneous

**VI. ELECTRICAL WORKS**

-Follow the attached load schedule



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**-Fixtures and Accessories:**

(1) Lightings: 1-18W LED Tube light with dustproof, vapor tight, IP65 housing/enclosure

(2) Outlet: Universal Convenience Outlet, Duplex, 3-prong 15A, 220V; 1-gang Aircon Outlet, 20A

(3) 2-gang switch

(4) Utility Box

(5) junction Box with cover

**-Wires:**

Approved THWN wires – 3.5mm<sup>2</sup> THWN Wire (Green); 3.5mm<sup>2</sup> THWN Wire, (Red, Yellow, Blue); 250mm<sup>2</sup> THHN Wire (Red, Yellow, Blue)

**-Pipe and Conduits:**

PVC piping – 20mmØ PVC; 3m per length; 20mmØ PVC adapter with locknut and bushing; 110mmØ Liquidtight Flexible Metal Circuit

Flexible Metal Conduit – 50 and 110mmØ Light tight  
Flexible Metal Conduit: 50mmØ Lighttight Flexible

\*PANEL BOARD PP: Main 450AT, 3P + G, 230V MCCB, 10 Branches:

1-400AT 3P, 2-40AT 3P, 1-30AT 2P, 5-20AT 2P, with grounding terminal

-Manual Transfer Swith (MTS) 350 Amps, 3 poles, 230 Volts

-Includes consumables and other miscellaneous items such as Hangers and supports, Flexible Metallic Conduit, Gound Rod, Mica Tube, Labels, Minor Tools and Equipment and Electrical tape etc.

**VII.) SUPPLY AND INSTALLATION OF WATER SUPPLY SYSTEM**

**-Piping and Accessories:**

-PPR Pipes or approved equivalent, check valves, gate valve, elbow, Tee, reducer, coupling



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- Includes SS 304 washing sink (50cm L x 60cm W x 100m H)
- Includes testing and commissioning
- Includes Consumables and other misscellaneous items (brackets etc.)

**VII.) SUPPLY AND INSTALLATION OF DRAINAGE SYSTEM**

- Piping and Accessories:
- PVC orange pipes or approved equivalent, End Cap, Tee, 45 degree Elbow, Floor cleanout, Floor Drain
- Includes testing and commissioning
- Includes Consumables and other miscellaneous items (solvent cement, etc)

**IX.) EQUIPMENT BOLTING**

- Inclusive of bolting the equipment on the fix part
- Includes consumables and other miscellaneous

**X.) FOOTINGS**

- 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 durable steel quality with stainless steel with elastomeric painting or approved equivalent
- Certification for load bearing capacity (need for testing)

**XI.) SUPPLY AND INSTALLATION OF EXHAUST AND VENTILLATING SYSTEM**

- Supply and installation of 16" heavy duty industrial exhaust fans
- Includes cosumables and other miscellaneous items, installations

**XII COVINGS**

- Wall joints or corners where walls meet must have a coving with a radius of 25mm



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-Preferably detachable coverings on non fixed walls of the trucks.  
-Rubber type or Silicone Type gasket coverings

-Includes consumables and other miscellaneous items

**XIII.) Others**

-As Built Plans. Signed and Sealed (Architectural, Mechanical, Electrical, Electronics, Sanitary, etc.)

-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 12mm Motorized Zoom Lens, 12 DC Power Output, Ceiling or wall mounted) including atleast 24" wall mounted monitor and peripherals and Full HD Flat Screen TV with 8-Channel Network Video Recorder (NVR) (1080p: 1920 x 1080 pixels, 32" Screen)

-1 lot supply and installation of battery operated Smoke Detector System

-Portable water storage tank with enclosure and steel pallet (1 cubic meter capacity)

-1 lot Global Positioning System/ Anti-theft tracking device (includes repair and maintenance)

-1 unit Heavy-duty Pallet truck, 3 ton capacity with 1 yr. Warranty (See appendix 9)

-Fire Extinguisher-Dry Power Type (10lbs) – 2pcs

-Includes Compact Aseptic Type Air Compressor with the ff specifications:

Displacement – 240L/min  
Exhaust Pressure – 0.8 Mpa  
Motor Power – 2.2 KW  
Voltage/Frequency – 220/380V/50 Hz  
Noise level at 1 meter – 60dB  
Cooling method – air cooled  
Start mode – frequency starting  
Outlet Size – G1/2



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Volume of tank – 50L  
 Weight – 160kg  
 Dimension (L x W x H) – 840 x 730 x 1370mm

**NOTE: Unit should be compatible with the existing aseptic line of ITDI to be verified first before proceeding to procurement.**

**XIV.) EQUIPMENT TRANSFER/DEPLOYMENT TO ITDI**

-Inclusive of hauling services, freight cost and other applicable expenditures to transfer equipment from DOST-ITDI to supplier's site and vice versa (whichever comes first)

Freight cost from port to specified delivery address:

Location: Dost Compound Gen. Santos Avenue 1631 Taguig City Metro Manila.

90 days upon receipt of P.O

**XV.) FUNCTIONAL/ PERFORMANCE TEST**

-Inclusive of at least one (1) dry run and one (1) wet run of MMFPF truck at ITDI

**XVII.) SUPPLY AND INSTALLATION OF EXTERNAL DESIGN**

-Inclusive of glossy vinyl decal stickers/design (or approved equivalent) and its installation; approx. 1,408 sq. ft

-Decals stickers should be for all weather conditions

-Design to be provided by DOST-ITDI and should reflect in both expanded and unexpected state of the truck

**XVII.) WARRANTY AND INSURANCE**

-Inclusive of insurance of the truck and all equipment parts (see attached TOR)

-Inclusive of at least 1 year warranty (parts and services) on the MMFPF Truck

**XVII.) ADDITIONAL REQUIREMENTS**

-Fabricator must have an experience in fabrication of a Mobile Food Processing Facility in customized truck



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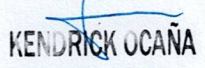
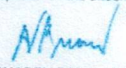

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		<p>-Fabricator must comply with GMP requirements</p> <p>-Fabricator must be flexible and willing to cooperate with the project design team on minor truck design modifications and R&amp;D changes</p> <p>-Close coordination with project team on any deviations from the provided engineering drawing</p>			
					12,000,000.00
			Less: VAT	535,714.28	
			EWT	107,142.85	642,857.13
			<b>TOTAL:</b>		<b>11,357,142.87</b>

END USER: **REYNALDO L. ESGUERRA**

(Total Amount in Words): Eleven Million Three Hundred Fifty Seven Thousand One Hundred Forty Two Pesos & 87/100

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.

Conforms:  <b>KENDRICK OCAÑA</b> Signature over Printed Name of Supplier Date: <b>JANUARY 30, 2024</b>	Very truly yours,  <b>DR. ANNABELLE V. BRIONES</b> Signature over Printed Name of Authorized Official Director Designation: <b>4/19</b>
Fund Cluster: DEVELOPMENT OF MOBILE MODULAR FOOD PROCESSING FACILITY (MMFPF)	ORS/BURS No.: <b>TRC02024010127</b>
Date:  <b>PATRICIA ASHLEY M. MENDOZA</b> Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit Accountant II	Date of the ORS/BURS: <b>Jan. 29, 2024</b> Amount: <b>12,000,000.00</b>

*Handwritten note:* 71,124/24

*Handwritten mark:* P