DEPARTMENT OF ENERGY
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BIDDING DOCUMENTS

INVITATION FOR NEGOTIATED PROCUREMENT AFTER TWO FAILED BIDDINGS

Supply, Delivery, Installation, Testing and Commissioning of Mobile Energy System (MES)

(Purchase Request No. 05-0151-2026-09-0577/05-0151-2026-0578)

Supply, Delivery, Installation, Testing and Commissioning of Mobile Energy System (MES)

1. The Department of Energy (DOE) intends to procure **Supply, Delivery, Installation, Testing and Commissioning of Mobile Energy System (MES)** with an Approved Budget for the Contract (ABC) of **One Hundred Ninety-Six Million and Two Hundred Thousand Pesos Only (Php196,200,000.00).**

2. The **DOE – Bids and Award Committee (DOE-BAC)** now invites technically, legally, and financially capable suppliers for the said project.

3. The Procurement procedure for this requirement is **Negotiated Procurement after Two Failed Biddings** pursuant to **Section 35.1** of the Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 12009.

   The selection of the successful offer shall be based on the best and final offer that will be submitted on the set deadline by the BAC and which would meet the minimum technical specifications required.

4. The interested bidders may obtain further information from the BAC Secretariat at DOE BGC, Taguig Office from **04 November 2026** to **11 November 2026**, Monday to Friday, at 8:00AM to 4:00PM.

5. The **DOE** will hold a Negotiation Meeting on **05 November 2026 at 1:00PM** at the **DOE-EUMB Conference Room**, which shall be open to prospective bidders.

6. Two (2) copies of the proposals (one original and one copy) must be submitted to the BAC which must be duly received by the BAC Secretariat through manual submission at the office address indicated above on or before **3:00 PM of 11 November 2026**. Late submission shall not be accepted.

7. Interested bidders shall submit the following documents in sealed envelopes, labeled as “Negotiated Procurement for Two Failed Biddings”, with the title of the procurement project, name of the bidder, address, the contact details of the bidder, addressed to the BAC.

A. Eligibility and Technical Documents

a) Valid PhilGEPS Registration Certificate (Platinum Membership), including the Annex/es.
b) Statement of Bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid. For this purpose, the definition of similar contracts shall refer to **Supply, Delivery, Installation, Testing and**

Commissioning of Mobile Energy System (MES) shall be completed within the last **5 years** prior to the date of submission of the best and final offer.

c) Bid Security in any of the following form as prescribed under the IRR of RA No. 12009:
   i. Cash, Manager's Check or Bank Guarantee;
   ii. In case of Surety Bond, submit also a certification issued by the Insurance Commission or Original Copy Notarized Bid Securing Declaration; or
   iii. Bid Securing Declaration.

d) Conformity with the Schedule of Requirements (Annex "A").

e) Conformity with the Technical Specifications (Annex "B").

f) Notarized Omnibus Sworn Statement (OSS) supported with Notarized Secretary's Certificate in case of a corporation or cooperative; in case of partnership or single proprietorship, the bidder shall submit Special Power of Attorney executed by the partners or single proprietorship; whichever is applicable. In case of Joint Venture, Special Power of Attorney shall be submitted by all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

g) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence or duly notarized statement from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

B. Financial Documents

h) Bid Form
i) Price Schedule

8. The Special Conditions of the Contract shall form part of the contract. Other conditions of the contract shall be governed by the IRR of RA No. 12009 and other related and applicable laws.

9. The Head of the Procuring Entity reserves the right to reject any and all bids, declare failure of bidding, or not award the contract in accordance with Section 70 of the IRR of RA No. 12009.

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Usec. RONALD V. CONQUILLA
Chairperson
Bids and Awards Committee

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Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Lot No.	Description	No. of MES	Total Cost (Php)	Delivery Schedule
1	MES integrated in vehicle	8	80,000,000.00	One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed (NTP).
2	MES (towable) for disaster response	14	116,200,000.00	

Supply, Delivery, Installation, Testing and Commissioning of Mobile Energy System (MES)

ABC: PhP 196,200,000.00

Lot No.	Description	Unit Cost	No. of MES	Total Cost (Php)
1	MES integrated in vehicle	10,000,000	8	80,000,000.00
2	MES (towable) for disaster response	8,300,000	14	116,200,000.00
Total			**22**	**196,200,000.00**

I. BACKGROUND

The DOE, through EPIMB, is pursuing initiatives to support the electrification of unserved and underserved areas, including geographically isolated and disadvantaged areas (GIDAS), in line with national energy access and resilience objectives.

In support of these initiatives, the DOE intends to procure a Mobile Energy System (MES) that can provide reliable, portable, and immediate power supply for off-grid communities, emergency response operations, and other energy security applications.

The MES is envisioned as a containerized or transportable power solution integrating renewable energy sources, battery energy storage, and power conversion systems. It shall be designed for rapid deployment, ease of operation, and adaptability to varying field conditions.

II. OBJECTIVES

The project aims to:

a. Provide a reliable portable power supply system for off-grid and emergency applications;
b. Support the electrification of unserved and underserved areas; and
c. Enhance the government's disaster response and energy resiliency capabilities.

III. GENERAL PROVISION (Applicable to ALL LOTS)

The Mobile Energy System (MES) is a modular, hybrid renewable energy system composed of Solar PV, Battery Energy Storage System (BESS), Power Conversion System, Balance of System (BOS), and auxiliary components designed for off-grid and emergency deployment.

All MES units shall be:

a. Brand new and production-ready
b. Designed for tropical, coastal, and disaster-prone environments
c. Fully compliant with IEC standards and Philippine Electrical Code (PEC)
d. Capable of standalone and modular operation

IV. SCOPE OF WORK

The Supplier shall be responsible for the complete supply delivery, installation, testing, and commissioning of the MES and its components, and shall warrant its operability, in accordance with the requirements specified in this TOR.

1. **System Design and Engineering**
   The Supplier shall be responsible to undertake the preparation of the detailed system design and engineering, including the configuration and integration of all components and synchronization with the distribution network.

2. **Supply and Deliver Equipment**
   The Supplier shall supply and deliver all necessary equipment and components, including but not limited to the solar photovoltaic (PV) modules, battery energy storage systems (BESS), inverter and power conversion systems, balance of system (BOS) components, mounting structures, wiring, protection devices, and other materials required for the complete system. Delivery shall be made to the designated site(s) in accordance with the approved schedules.

V. MAJOR TECHNICAL COMPONENT OF MES (Common Baseline)

	MES Components	Technical Specifications
1.0	**Solar PV**	The Solar Photovoltaic (PV) Generation System is the primary energy source of the Mobile Energy System (MES). It converts solar energy into direct current (DC) electricity to supply daytime loads and to charge the Battery Energy Storage System (BESS). The PV system is designed for rapid deployment and reliable operation under Philippine climatic conditions, including high temperature, humidity, and coastal environments. It enables fuel-free power generation during emergencies and reduces dependence on conventional generators. The PV modules shall be suitable for outdoor deployment and compliant with applicable IEC standards for environmental protection, durability, and weather resistance. The module junction box shall have a minimum ingress protection rating of IP67. The overall PV module assembly shall be designed for long-term outdoor operation under tropical, coastal, and disaster-response

conditions.

a. General Requirements:

Technology:	Monocrystalline silicon solar PV modules
Application:	Suitable for mobile energy system (MES) deployment under tropical and coastal Philippine conditions
Compliance:	Modules shall be brand new, unused, and of current production model
Waterproof and Weatherproof	IP67 or higher, rigid and durable enough for permanent outdoor placement - no daily set up required.
Design: Conventional or Retractable	The system allows for rapid installation, dismantling, and relocation, consistent with the functional requirements of a MES. The system shall employ a Zero-Swing (Vertical) Deployment mechanism designed to minimize the required deployment footprint, making it suitable for installation in remote and off-grid communities where available space and site accessibility may be limited. The bidder shall declare the required deployment footprint in its bid submission, which shall form part of the technical specifications, and shall demonstrate compliance with the declared footprint during testing.
Self Supporting	The panels are mounted on an integrated support frame that allows deployment and storage without reliance on existing buildings, roofs, or permanent

	civil structures.
Compatibility	Electrical characteristics shall be fully compatible with the system's MPPT charge controller and capable of operating in parallel with conventional rigid PV panels.

b. Electrical Specifications (minimum):

Solar Capacity	8kW
Rated Maximum Power	≥ 400 Wp per module (400-720Wp)
Power Tolerance:	0 to +5 Wp (positive tolerance only)
Module Efficiency	≥ 20%
Maximum Power Voltage (Vmp)	As specified by the manufacturer
Maximum Power Current (Imp)	As specified by the manufacturer
Open Circuit Voltage (Voc):	As specified by the manufacturer
Short Circuit Current (Isc):	as specified by the manufacturer and compatible with the inverter/MPPT input current rating.
Electrical Rating Conditions	All electrical parameters shall be measured under Standard Test Conditions (STC).

c. Environmental and Operating consideration

Operating Temperature Range:	–40 °C to +85 °C
Nominal Operating Cell Temperature (NOCT):	≤ 45 °C
Resistance to Ammonia and Salt Mist:	Required for coastal and island deployment

d. Degradation and Performance Warranty

First Year Degradation:	≤ 2%
Annual Degradation Thereafter:	≤ 0.55% per year
Performance Warranty:	Minimum 20 years, with not less than 80% 4% of rated power at Year 25

e. Certifications and Standards (Mandatory IEC Compliance) The solar PV modules shall be fully compliant with the following international standards:

IEC 61215	Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval
IEC 61730-1 & IEC 61730-2	PV module safety qualification (construction and testing)
IEC 61701	Salt mist corrosion testing (required for coastal/island areas)
IEC 62716	Ammonia corrosion resistance
ISO 9001	Quality Management System

	(Manufacturer)

Test certificates shall be issued by IEC-accredited testing laboratories and ISO Certifications must be **submitted with the Bid**. During post-qualification, the Procuring Entity shall only validate the authenticity, validity, completeness, and conformity of the submitted documents, including the original documents where required under applicable procurement rules.

f. Solar PV Deployment

The Solar PV system shall be designed for zero- or minimal-shading ("zero-swing") vertical deployment, as applicable to the proposed MES configuration, and shall be suitable for deployment in the identified deployment areas.

No uniform fixed footprint shall be prescribed. However, the Bidder shall declare in its Bid the maximum ground/roof area and overall dimensions required for the Solar PV deployment, based on the capacity of the Solar PV configuration and module specifications. The declared footprint shall consider the actual site conditions and shall be sufficient to accommodate the required PV capacity, structural support, access and maintenance clearances, safety requirements, and applicable installation standards.

The proposed deployment footprint shall be optimized to minimize land/space requirements without compromising system performance, safety, accessibility, and maintainability. The Bidder shall demonstrate during inspection, testing, or acceptance testing that the installed Solar PV system conforms to the declared footprint and the required minimum Solar PV capacity.

g. PV Panel Protective Cover

The MES shall include protective covers or equivalent protective measures for the solar PV panels to minimize damage during transport, storage, standby deployment, and extreme weather conditions, particularly when pre-deployed in schools, barangay halls, evacuation centers, relocation sites, or similar public facilities.

The protective cover shall:

<table>
<tr><td></td><td></td><td>1. Be durable, waterproof, UV-resistant, and suitable for outdoor use
2. Protect the PV panels from debris, dust, impact, and adverse weather conditions;
3. Be easy to install and remove during deployment or emergency operation; and
4. Not causing damage, overheating, or excessive pressure on the PV modules during storage or transport.

The protective covers shall form part of the complete MES package at no additional cost to the Procuring Entity</td></tr>
<tr><td>2.0</td><td>Battery Energy Storage System (BESS)</td><td>The Battery Energy Storage System (BESS) stores electrical energy generated by the solar PV system for use during nighttime, cloudy conditions, or when solar generation is unavailable. It provides the MES with the capability to deliver continuous power during disasters and ensures a minimum of two (2) days autonomy for evacuation center operations in the scenario that the daily energy consumption does not exceed 13 kWh/day. The BESS incorporates lithium-ion battery technology with an integrated Battery Management System (BMS) to ensure safe, reliable, and efficient charging, discharging, and monitoring.

a. General Requirements

<table><tr><td>Battery Technology:</td><td>Lithium-ion, with Lithium Iron Phosphate (LFP) chemistry preferred for safety and thermal stability</td></tr><tr><td>Application:</td><td>The battery system shall be suitable for MES deployment for disaster response and evacuation center use.</td></tr><tr><td>Condition:</td><td>Brand new, unused, and of current production model</td></tr><tr><td>Configuration</td><td>Modular and scalable battery system</td></tr></table>
b. Electrical Specifications</td></tr>
</table>

Nominal Energy Capacity per Module:	≥ 3.6 kWh
Total Installed Battery Capacity:	≥ 28.8 kWh (nominal)
Usable Energy Capacity:	≥ 26 kWh
Depth of Discharge (DoD):	90%
Nominal DC Voltage:	(48 V or equivalent preferred)
Round-Trip Efficiency:	≥ 90%
Maximum Continuous Charge/Discharge Rate	≥ 0.5C

c. Performance and Durability

Cycle Life:	≥ 6,000 cycles at 80% DoD
Calendar Life:	≥ 10 years
Capacity Retention:	≥ 70% at end of warranty period
Self-Discharge Rate:	≤ 3% per month

d. Battery Management System (BMS): Each battery module shall be equipped with an integrated Battery Management System capable of:

- Cell voltage monitoring and balancing
- Over-charge protection
- Over-discharge protection
- Over-current and short-circuit protection
- Over-temperature and under-temperature protection
- State of Charge (SOC) and State of Health (SOH) monitoring
- Alarm and fault signaling

e. Mechanical and Environmental Specifications

Enclosure Rating:	IP65 or higher
Operating Temperature Range:	
Charge:	0 °C to +55 °C
Discharge:	–20 °C to +60 °C
Cooling:	Natural convection or forced air cooling
Vibration and Shock Resistance:	Suitable for transport and mobile deployment

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Fire Safety:	Integrated fire-retardant materials and thermal runaway mitigation features

f. Safety and Protection

1. Protection Against:
    - Over-voltage and under-voltage
    - Over-current and short circuit
    - Reverse polarity
    - Thermal runaway
2. Emergency disconnect and isolation capability shall be provided

g. Battery Mounting and Transportation Stability

The BESS, including battery modules, racks, and associated components, shall be securely mounted and mechanically restrained within the MES to prevent movement, displacement, vibration-induced damage, or loosening during transport, towing, deployment, and operation.

Where electric vehicle (EV)-type or EV-derived battery modules are utilized, the Supplier shall demonstrate through manufacturer documentation, certifications, or test reports that the battery system is suitable for mobile or transportable energy storage applications and is designed to withstand vibration, shock, and transportation-related stresses while maintaining safe and reliable operation.

h. Certification and Standards

IEC 62619	Safety requirements for secondary lithium cells and batteries for industrial applications
IEC 63056	Safety requirements for secondary lithium batteries for energy storage systems
IEC 62477-1	Safety requirements for power electronic converter systems
UN 38.3	Transport safety testing for lithium batteries
ISO 9001	Quality Management System (Manufacturer)

Test certificates shall be issued by IEC-accredited testing

		laboratories and ISO Certifications must be **submitted with the Bid**. During post-qualification, the Procuring Entity shall only validate the authenticity, validity, completeness, and conformity of the submitted documents, including the original documents where required under applicable procurement rules. For purposes of the Bidder's compliance with inverter and power conversion system safety requirements, the following shall apply: (1) Systems with Separate Battery Inverter / Power Conversion System (PCS) Where the Battery Energy Storage System (BESS) employs a dedicated and standalone battery inverter or bidirectional power conversion system (PCS) separate from the photovoltaic (PV) inverter, the said battery inverter/PCS shall comply with: IEC62477-1 This requirement shall apply to all standalone converters performing battery charge and discharge functions independent of PV inverter operation. (2) Systems Utilizing Hybrid Inverter (Integrated PV + BESS Functionality) Where the system employs a hybrid inverter integrating both photovoltaic (PV) grid-tied conversion and battery charging/discharging functions within a single unit, a separate compliance with IEC 62477-1 for a battery inverter/PCS shall no longer be required. Instead, the hybrid inverter shall comply with: The applicability of the above standards shall be determined based on the system architecture submitted **by the Bidder with its Bid.** During post-qualification, the Procuring Entity shall validate the submitted system architecture and the corresponding compliance documents. **i. Integration and Compatibility** ● Battery system shall be fully compatible with the specified inverter and charge controller ● Communication Protocol: CAN, RS485, or equivalent ● Parallel operation of battery modules shall be supported

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j. Warranty Requirements

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<tr><td>Product Warranty:</td><td>Minimum 5 years</td></tr>
<tr><td>Performance Warranty:</td><td>Minimum 10 years or ≥ 6,000 cycles, whichever comes first</td></tr>
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The BESS may be composed of multiple battery modules or banks, consistent with the modular and scalable configuration required in the TOR. However, battery units with different rated voltage, capacity or power are not allowed.

All modules shall be of the same make, model, chemistry and rating; each module shall be at least 3.6 kWh; the modules shall operate in parallel as one system under a BMS compatible with the inverter; and the combined system shall meet the ≥ 28.8 kWh nominal and ≥ 26 kWh usable capacity requirements.
</td></tr>
<tr><td>3. 0</td><td>INVERTER/ POWER CONVERSION SYSTEM</td><td>

The Inverter or Power Conversion System converts DC electricity from the PV array and batteries into usable alternating current (AC) power for the evacuation center and household-equivalent loads. It manages power flow among the PV system, battery storage, and connected loads while maintaining stable voltage and frequency. The inverter also provides system protection, supports load surges from essential equipment, and enables off-grid operation suitable for mobile and emergency energy applications.

<table>
<tr><td>Type:</td><td>Hybrid Inverter compatible with BESS</td></tr>
<tr><td>Rated Capacity:</td><td>Minimum 8 kW</td></tr>
<tr><td>Output Voltage:</td><td>230 V AC, single-phase</td></tr>
<tr><td>Frequency:</td><td>60 Hz</td></tr>
<tr><td>Surge Capacity:</td><td>≥ 150% of rated power</td></tr>
<tr><td>Conversion Efficiency:</td><td>≥ 95%</td></tr>
<tr><td>Protection Features:</td><td>Overload
Over/Under-voltage
Short-circuit
Anti-islanding</td></tr>
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		Compliance: IEC 62109 PEC-compliant
4.0	**BALANCE OF SYSTEM (BOS)**	The Balance of System (BOS) includes all auxiliary electrical and structural components necessary for the safe and reliable operation of the MES. These components consist of DC combiner boxes, AC distribution panels, protective devices, cabling, grounding and earthing systems, mounting structures, and electrical enclosures. The BOS ensures proper power distribution, electrical protection, and compliance with the Philippine Electrical Code (PEC) and applicable safety standards. ● DC Combiner Box with fuses and DC surge protection - The DC combiner box requirement shall refer to the DC connection, isolation, and protection system between the PV modules and the inverter/charge controller. Separate DC combiner boxes shall not be mandatory where the proposed PV string configuration allows direct connection to the inverter, provided that adequate DC protection, isolation, surge protection, and operational safety are maintained in accordance with applicable IEC standards and good engineering practice. ● AC Distribution Panel with circuit breakers - the AC Distribution System refers specifically to the AC-side power distribution, protection, feeder management, and load connection components of the MES, while the Balance of System (BOS) refers to the auxiliary and supporting electrical, mechanical, structural, grounding, monitoring, wiring, and integration components necessary for the complete installation, operation, protection, and interoperability of the MES. Any overlap in component interfaces shall not be interpreted as duplication of functional requirements. ● Load prioritization for critical and non-critical loads ● Grounding and Earthing System compliant with the Philippine Electrical Code (PEC) ● Cabling: UV-resistant, properly sized DC and AC cables ● Monitoring System: ○ PV generation ○ Battery State of Charge (SOC) o Load consumption

5.0	**AUTONOMY AND PERFORMANCE REQUIREMENTS**	The MES shall be designed to provide a minimum of two (2) days of operational autonomy (if the daily energy consumption does not exceed 13 kWh/day), defined as the ability of the system to continuously supply electrical power to designated critical loads without any solar generation or external power source. Autonomy shall be achieved through the Battery Energy Storage System (BESS) alone and shall be based on the defined daily energy demand of the evacuation center, equivalent to 13 kWh/day, under disaster or emergency operating conditions. The required autonomy ensures that essential services—such as lighting, ventilation, communication equipment, charging facilities, and basic administrative and medical support—remain operational during extended periods of adverse weather, nighttime operation, or prolonged grid outages commonly experienced during calamities. For compliance purposes: ● The MES shall provide at least 26 kWh of usable battery energy to meet the two-day autonomy requirement. ● The system shall be capable of sustaining operations for 48 consecutive hours without solar input, provided that daily energy consumption does not exceed the specified design load. ● Autonomy shall be verified through system sizing calculations and demonstrated during testing and commissioning, as required by the Procuring Entity. Where additional medical or safety loads are connected, resulting in increased daily energy demand, the system shall remain operable with reduced autonomy unless additional battery capacity is provided. Solar PV generation shall be utilized to extend system autonomy and support continuous operation beyond the minimum required period. The system shall sustain two (2) days of autonomous operation, provided daily energy consumption does not exceed 10-13 kWh/day.
6.0	**AC DISTRIBUTION SYSTEM**	The AC Distribution System of the MES shall safely distribute

		alternating current (AC) power from the inverter to various loads, including lighting, charging stations, communication equipment, and other essential appliances during emergency and disaster response operations. The system shall be designed for safe, reliable, and flexible power delivery, allowing simultaneous connection of multiple loads while ensuring protection against overloads, short circuits, and electrical faults. **a. System Configuration** ● The AC distribution system shall be supplied from the single-phase AC output of the inverter. ● Nominal system voltage: 230 V AC, single-phase, 60 Hz. ● Distribution shall be centralized through an AC Distribution Panel (ACDB) housed within or integrated into the MES enclosure. **b. AC Distribution Panel (ACDB)** ● To be constructed of metal or non-combustible enclosure with adequate ventilation ● Have minimum ingress protection of IP54 or higher ● Be equipped with lockable access door ● Be clearly labeled for all circuits and protective devices ● Be designed for portable and mobile operation **c. Circuit Protection Devices** The AC distribution system shall include the following minimum protective devices: ● Main AC Circuit Breaker ○ Rated to match inverter output capacity ○ Provides isolation and overcurrent protection for the entire AC system ● Miniature Circuit Breakers (MCBs) ○ Individual MCBs for each outgoing circuit ○ Rated according to load type and conductor size ○ IEC 60898-1 compliant or equivalent ● Residual Current Device (RCD) / Earth Leakage Circuit Breaker ○ Sensitivity: 30 mA for personnel protection ○ Installed at the main or branch circuit level ○ IEC 61008 / IEC 61009 compliant or equivalent

d. Load Segregation Priority

The AC distribution system shall provide separate circuits for the following load categories:

- Critical Loads (e.g., emergency lighting, medical refrigerator, communications)
- General Loads (e.g., fans, convenience outlets)
- Charging Stations (mobile phones, power banks, small devices)

Critical load circuits shall be clearly identified and protected to ensure continuity of operation during load management or system constraints.

e. AC Outlets and Interferences

Standard 230 V AC convenience outlets, heavy-duty type

- Minimum rating: 10 A per outlet, unless otherwise specified
- Outlets shall be industrial or weather-resistant type suitable for outdoor use
- Location shall allow safe access under the awning or enclosure
- All outlets shall be properly grounded

f. Grounding and Earthing

The MES shall be equipped with an adequate grounding and earthing system to ensure safe and reliable operation. All electrical components, enclosures, and conductive parts shall be properly grounded in accordance with applicable standards and codes. The grounding system shall be suitable for mobile or temporary deployment conditions and shall provide protection against electrical faults and hazards.

The MES shall include grounding terminals, bonding points, and connection interfaces for grounding electrodes and lightning protection systems compliant with IEC and PEC standards. Final grounding electrode configuration, including grounding flat bars, rods, conductors, or equivalent grounding materials, may vary depending on site-specific soil conditions, grounding resistance requirements, corrosion considerations, and detailed engineering design. Bidders shall ensure that the proposed grounding system is capable of achieving safe and compliant grounding performance under actual deployment conditions.

		g. Wiring and Cabling ● AC wiring shall use copper conductors, insulated and rated for 600 V minimum ● Cables shall be sized according to load and voltage drop requirements ● Wiring shall be neatly routed, secured, and protected from mechanical damage ● Color coding and labeling shall follow applicable electrical standards **h. Safety Operational Features** ● Emergency AC isolation switch for quick shutdown ● Clear safety signage and warnings ● Overload and short-circuit protection coordinated with inverter ratings ● No exposed live parts during normal operation **i. Documentation and Compliance** The bidder shall submit: ● Single-line diagram (SLD) of the AC distribution system ● Manufacturer's brochures or technical datasheets of the proposed ACDB and protective devices, submitted with the Bid. ● Test and commissioning reports, such as but not limited to Factory Acceptance Test Reports, vibration/mechanical stress test reports, PEE Certification for safety either for “stand-alone” or “grid interconnection” ● Compliance with: ○ IEC standards ○ Philippine Electrical Code (PEC) (i.e, Statement of Compliance) ○ Applicable DOE safety requirements Test certificates shall be issued by IEC-accredited testing laboratories and ISO Certifications must be **submitted with the Bid**. During post-qualification, the Procuring Entity shall only validate the authenticity, validity, completeness, and conformity of the submitted documents, including the original documents where required under applicable procurement rules.
7.0	**MES ENCLOSURE WITH INTEGRATED AWNING SYSTEM**	**a. General Description** The MES shall be housed in a weather-resistant enclosure

		equipped with an integrated, deployable awning system with detachable side walls, intended to provide protected working space, equipment shelter, and temporary service areas during emergency, disaster response, and off-grid deployment. The enclosure and awning system shall enable rapid deployment, safe operation, and continuous access to MES components while ensuring protection from rain, direct sunlight, wind, and airborne debris. The specified wind resistance requirements shall be interpreted together with the structural and transport design requirements of the MES. The ability of the system to withstand the required wind conditions depends on the overall engineering design, including structural reinforcement, stabilizers, anchoring provisions, locking mechanisms, trailer configuration, and total system weight. Accordingly, the allowable MES weight is intended to provide sufficient flexibility for bidders to incorporate the necessary structural supports and reinforcements required to comply with the specified wind resistance, transportability, towing, and operational safety requirements. Bidders shall ensure that the MES remains structurally stable and safely towable by commonly available light vehicles, pickup trucks, and SUVs under intended deployment and transport conditions. **b. Enclosure Requirements** The MES enclosure shall: ● Be constructed from durable, corrosion-resistant materials (e.g., powder-coated aluminum, marine-grade steel, or equivalent) ● Be suitable for outdoor, all-weather operation under Philippine climatic conditions ● Provide secure housing for batteries, inverter, control panels, and electrical components ● Include lockable access doors with weather seals ● Provide natural and/or forced ventilation to prevent heat buildup while maintaining ingress protection ● Be compatible with mobile platforms (trailer-mounted, skid-mounted, or vehicle-mounted) ● The total MES weight, including enclosure, awning, PV modules, BESS, mounting structures, trailer interface components, and all accessories, shall be a

		minimum of **1 ton and may extend up to 1.5 tons,** subject to the bidder's final engineering design, provided that the MES remains safely towable and transportable using commonly available light vehicles, pickup trucks, and SUVs, and compliant with applicable towing capacity, axle load, road transport, structural integrity, wind resistance, and operational safety requirements. **c. Minimum enclosure protection:** ● Ingress Protection: IP54 or higher ● Wind resistance: Suitable for temporary deployment during adverse weather (deployable and functional up to 60-80 kph [Signal No. 1 or 2], and the system, even if folded, must withstand wind speeds of at least 250 kph [Signal No. 4 or 5 levels] without structural failure) For wind resistance, bidders shall submit with their Bid a manufacturer's certification that the enclosure could withstand the required wind resistance requirements (deployable up to 60–80 kph; withstands at least 250 kph when folded/stowed). Actual compliance shall be verified during inspection and testing. ● Operating temperature: At least 0°C to 50°C ambient **d. Integrated Awning System Requirements** The MES shall include a wrap-around or wide-coverage deployable awning system, functionally equivalent to a 270-degree awning, providing shaded and rain-protected space around the enclosure. The awning system shall: ● Deploy from the MES enclosure or mobile frame ● Provide minimum 270-degree coverage around the unit, or equivalent total covered area ● Be operable by one (1) to two (2) personnel ● Require no specialized tools for deployment ● Be stable under moderate wind conditions (Beaufort Force 5 at the maximum) when properly secured **e. Awning Fabric and Frame** ● Fabric: Heavy-duty, waterproof, UV-resistant material, UV50+, mildew- and rot-resistant, fire-retardant

		● Frame: Aluminum alloy, stainless steel, or equivalent lightweight, corrosion-resistant material, reinforced joints for repeated deployment ● Anchoring: Integrated tie-down points or stabilizers for safe deployment **f. Awning Side Walls / Panels** ● Detachable side walls for enclosed working or shelter space ● Weather-resistant and UV-protected fabric ● Zippered or Velcro access points **g. Mounting and Interface with MES Trailer (excluded for Lot 1)** The MES shall be mounted on a skid, pallet, frame, or trailer and secured using bolts, clamps, or ratchet tie-downs to ensure stability during transport. The design shall allow rapid unhitching, loading, and unloading using a forklift or manual jacks, without permanent modification to the towing vehicle. **h. Stability and Safety** **The MES in trailer shall be designed for safe transport and deployment, incorporating (excluded for Lot 1):** ● Tie-down points or stabilizer jacks to resist tipping or wind forces during deployment. ● Rounded or protected edges to prevent injury during handling. ● Adequate clearance from live electrical components to ensure operator safety. Use of non-flammable or fire-retardant materials for the enclosure and awning. ■ **i. Trailer Axle, Wheels, and Suspension Requirements (excluded for Lot 1):** The MES trailer shall meet the following requirements: i. Wheels and Tires ● Heavy-duty, commercial-grade wheels suitable for the fully loaded MES trailer. ● Tires rated for the trailer's GVW, including safety margin for emergency stops and uneven or light off-road terrain.

		● Recommended: radial tires with reinforced sidewalls. Trailer may include dual wheels or reinforced axle if necessary for load distribution. ● Tire pressure and maintenance shall follow manufacturer specifications for safe operation under full load. ● **Trailer Spare Tires:** at least one (1) complete spare tire set for trailer-based MES units, including rim and mounting hardware. ii. Suspension ● Reinforced suspension to safely support static trailer weight and dynamic forces during towing, braking, turning, or uneven terrain. ● Rear suspension shall accommodate concentrated MES load or trailer tongue weight without exceeding manufacturer specifications. ● Shock absorbers, leaf springs, or equivalent components shall provide stability during transport on unpaved or disaster-affected roads. **Compliance and Documentation** The bidders shall submit: ● Technical datasheets for the MES enclosure, awning, and trailer. ● Material specifications for all structural and deployment components. ● Deployment and safety instructions demonstrating rapid setup and unhitching from the towing vehicle. ● Certification or statement verifying that total MES weight, including enclosure, awning, PV, BESS, and accessories, shall be a minimum of **1 ton and may extend up to 1.5 tons** ● Documentation demonstrating compliance with applicable LTO and DPWH road transport transport and structural safety requirements. ● Warranty: Minimum 1 year.
8.0	**AC COMBINER FOR MULTIPLE MES UNITS**	**a. General Description** The AC Combiner Panel shall be a portable, weather-resistant electrical assembly designed to safely interconnect the AC outputs of two (2) to four (4) Mobile Energy System (MES) units. It shall allow multiple MES units to operate in parallel on the AC side, enabling scalable power delivery to support higher loads such as

		evacuation centers, emergency command posts, and critical facilities. Each MES shall remain electrically independent, with its own inverter, battery, and protection system. The AC Combiner Panel shall combine the individual AC outputs into a single, unified AC distribution point while maintaining safety, selectivity, and ease of deployment. **b. Functional Requirements** The AC Combiner Panel shall: ● Allow parallel operation of multiple MES units without backfeeding or cross-interference ● Enable rapid connection and disconnection of MES units during field deployment ● Provide a single AC output bus for downstream loads or temporary distribution panels ● Support modular expansion, allowing additional MES units to be connected as demand increases ● Maintain system safety even if one MES is shut down or disconnected ● The AC Combiner Panel, including busbars, breakers, conductors, protection devices, and enclosure thermal ratings, shall be appropriately sized based on the total aggregate connected load of the MES units intended for parallel operation. **c. Electrical Design Requirements** ● Rated for 230 V AC, single-phase, 60 Hz (or compatible with MES inverter output) ● Minimum capacity shall accommodate the combined output of at least two (2) to four (4) MES units, each rated up to 8 kW ● Individual incoming breakers for each MES unit ● Main outgoing breaker sized according to combined rated output ● Neutral and grounding bars sized for full load ● No reverse power flow between MES units **d. Protection and Safety Features** The AC Combiner Panel shall include: ● Individual Miniature Circuit Breaker (MCB) or Molded-Case Circuit Breaker (MCCB) for each MES input ● Main circuit breaker with overload and short-circuit protection ● Surge Protection Device (SPD), Type 2 (recommended)

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		● Proper earthing/grounding terminal ● Clear labeling for each MES input and output feeder ● Interlock or protection scheme to prevent unsafe backfeeding **e. Enclosure** ● Enclosure shall be weather-resistant and suitable for outdoor emergency use ● Minimum protection rating: IP54 (IP65 or higher) ● Portable, skid-mounted, or wall-mountable design ● Heavy-duty industrial connectors or terminals for fast deployment ● Lockable enclosure to prevent unauthorized access **f. Interface with MES Units** ● Compatible with standard MES AC output connectors ● Flexible cable entry points to accommodate various deployment layouts ● Allows each MES to be operated, isolated, or serviced independently ● Disconnection of one MES shall not interrupt operation of remaining units **g. Application and Use Case** The AC Combiner Panel shall be used when: ● Multiple MES units are deployed at a single site ● Power demand exceeds the capacity of a single MES ● Redundancy and load sharing are required ● Centralized AC distribution is needed for temporary facilities **h. Compliance and Standards** The AC Combiner Panel shall comply with or be equivalent to: ● IEC 61439 / EN 61643 – Low-voltage switchgear and controlgear assemblies (i.e. Type Test Certificates / Design Verification Reports or other equivalent document) ● IEC 60947 – Low-voltage switchgear and controlgear (i.e. Component Datasheets) (i.e. SLD or other equivalent document)

		● PEC (Philippine Electrical Code) ● Relevant DOE safety and electrical installation guidelines Test certificates shall be issued by IEC-accredited testing laboratories and ISO Certifications must be **submitted with the Bid**. During post-qualification, the Procuring Entity shall only validate the authenticity, validity, completeness, and conformity of the submitted documents, including the original documents where required under applicable procurement rules.
9.0	**ANCILLARY SYSTEMS**	In addition to the primary components and technical requirements specified in this TOR, the MES shall include the following additional inclusions and ancillary systems: 1. **Radio Communication System:** Portable or fixed radio system suitable for emergency coordination and disaster response operations For uniformity in the preparation of bids, the following recommended minimum technical parameters for the Radio Communication are hereby provided for guidance: 1. At least **one (1) radio communication unit per MES unit** is required. 2. Either **analog or digital radio communication systems** are acceptable. 3. **VHF Radio System:** Portable or fixed radio system suitable for emergency coordination and disaster response operations Base Station: Enclosure-integrated, NTC type-approved VHF transceiver (136–174 MHz, adjustable 25W–45W output) with low-loss RG-213 cabling feeding an exterior high-gain omnidirectional fiberglass antenna. 2. **Tower / Mast Lighting System:** Deployable tower or mast-mounted lighting system for nighttime operations, safety, and area illuminations. For uniformity in the preparation of bids, the following recommended minimum technical parameters for the Tower/Mast Lighting System are hereby provided for guidance: (a) LED lighting capacity ranging from 100W to 200W, considered sufficient for MES operational and perimeter lighting requirements;

			(b) Luminous efficacy preferably greater than 140–180 lm/W; (c) The Tower/Mast Lighting System shall have a recommended deployable mounting height of approximately four (4) to six (6) meters, subject to final engineering design and operational requirements; and (d) The Tower/Mast Lighting System shall preferably be provided with a dedicated auxiliary battery system and/or independent power source in order to minimize dependency on the primary MES power supply and ensure continued lighting operation during emergency deployment, maintenance activities, or critical operations. 3. **Satellite Internet System (Starlink or equivalent):** Satellite-based internet connectivity system capable of supporting emergency communications, coordination, and data transmission in off-grid and disaster-affected areas. **Mobility & Baseline Subscription:** The Supplier shall provide, activate, and shoulder the full cost of a **minimum of a standard "Roam on the Go" (Mobile Regional / Roam Unlimited)** satellite internet subscription package. This subscription must feature **unlimited data** i.e., no hard data cap that results in the suspension or termination of connectivity upon reaching a specified data threshold) and shall remain active for a minimum period of **twelve (12) months**, commencing from the date of **successful testing, commissioning, and final acceptance** MES. The MES shall incorporate basic cybersecurity features for all internet-connected components, including user authentication, encrypted communications, access logging, password management, and secure remote access capabilities to protect the system from unauthorized access and cyber threats. The Contractor shall provide documentation demonstrating the implementation of the above cybersecurity measures. 4. **Trailer Spare Tires:** at least one (1) complete spare tire set for trailer-based MES units, including rim and mounting hardware.

5. **Online Monitoring System:** The MES shall be equipped with a local-based monitoring system capable of displaying and recording the operational status of the system including but not limited to:
   - Solar PV generation
   - Battery State of Charge (SOC)
   - System alarms and faults
   - Load consumption and operational status
   - Location of MES units

   GPS location tracking and remote system monitoring shall be transmitted through the Satellite Internet System, enabling authorized personnel to remotely monitor the location and operational status of each MES unit in real time.

6. Fire Extinguisher

The MES shall be provided with at least one (1) unit portable fire extinguisher suitable for electrical and lithium-ion battery-related fire hazards. Fire extinguishers shall be compliant with applicable national and international fire safety standards and shall be readily accessible within or adjacent to the MES installation area.

The fire extinguisher should be suitable for:
1. Electrical fires involving energized equipment
2. Incipient-stage lithium-ion battery fires
3. Auxiliary combustible materials within the BESS enclosure

Minimum Requirements:

Item	**Minimum Requirement**
Fire Extinguisher Type	Clean Agent and/or ABC Dry Chemical Type
Suitable Fire Class	Class A, B, C and energized electrical equipment
Minimum Capacity	5 lbs Clean Agent and/or 10 lbs ABC Dry Chemical
Minimum Rating	2A:10BC or higher
Cylinder Material	Corrosion-resistant steel or aluminum
Accessibility	Easily accessible and unobstructed location
Certification	UL-listed, FM-approved, or equivalent
Standards Compliance	NFPA 10, NFPA 855, applicable IEC/UL standards
Local Compliance	Compliant with requirements of the Bureau of Fire Protection (BFP)

		Integration and Compliance The bidder shall ensure that all additional items shall: 1. Be fully compatible and integrated with the MES without degrading system performance; 2. Comply with applicable IEC standards, Philippine Electrical Code (PEC), and DOE safety requirements; 3. Be included in the testing, commissioning, training, documentation, and warranty obligations of the Supplier; 4. Be deemed included in the ABC, with no additional cost to the Procuring Entity.
10	**Visual Design, Color, and Branding Specifications**	To ensure high government visibility, standardized identification, and maximum reflective safety during field and disaster response deployments, all units must strictly comply with the following aesthetic and coating requirements: ● Enclosure Exterior Finish and Color: ○ The entire exterior surface of the MES enclosure (and trailer/skid chassis frames where applicable) shall be treated with an anti-corrosion primer suitable for marine/coastal environments. ○ The final topcoat must be Pure White (RAL 9010 Glossy) or an equivalent high-reflectivity weather-resistant powder coating. This is mandatory to minimize solar heat absorption and prevent thermal stress on the internal battery systems. ○ Official Department of Energy (DOE) Painted Logo and Markings: ○ Placement: The official DOE logo must be prominently affixed on the left exterior side panel, the right exterior side panel, and centered cleanly on the rear access door of each MES unit. For Lot 1 (vehicle-mounted), placement shall be adapted to fit the visible side panels of the flatbed/chassis structure. ○ Material & Paint Specifications: ○ Base Primer: Marine-grade, anti-corrosive epoxy primer compatible with the MES exterior surface. ○ Topcoat Paint: Heavy-duty, industrial-grade polyurethane or acrylic aliphatic polyurethane paint. ○ Finish & Protection: The paint system must be engineered to withstand high humidity, intense sunlight (UV radiation), and heavy salt mist without fading, chalking, or peeling. A clear,

		UV-blocking protective topcoat must be applied over the final painted logo. ○ Reflectivity: To match the high-visibility requirements of field operations, the paint formulation must incorporate premium reflective glass beads or a reflective clear-coat compound to guarantee long-range visibility under low-light and nighttime conditions. ○ Dimensions: Minimum size of 600 mm x 600 mm to guarantee long-range visibility in the field. ○ Primary Color Palette: Based on the Department of Energy logo, the primary color palette is in DOE Brand Blue hex color code #0000FE and DOE Brand Yellow hex color code #FFFF00.
11	**Pre-Deployment Connection Requirements**	For MES units intended for pre-deployment or temporary energization of facilities such as schools, barangay halls, evacuation centers, rural health units, command centers, or similar sites, the Supplier shall ensure safe and reliable connection to existing electrical loads and wiring systems. **a. Temporary Connection Equipment** The Supplier shall provide all necessary temporary interface equipment, including: • Power cables and industrial connectors • Temporary distribution/interface panel • Circuit breakers and protection devices • Grounding accessories • Isolation/changeover switch (if required) • Proper labeling and operating instructions **b. Safety and Protection** The connection shall be designed to prevent: • Overload and short circuit • Ground faults • Reverse polarity • Unsafe parallel operation with grid or generators **c. Deployment Documentation** Prior Energization, the Supplier shall submit: • Connection diagram (SLD) • Load allocation and operating estimate • Safety and isolation procedures • Operating limits and restrictions

		• Deployment plan for the facility **d. Coordination and Compliance** The Supplier shall coordinate with the Procuring Entity, end-user, and Distribution Utility (if applicable) to ensure safe and proper energization. All temporary installations shall comply with the Philippine Electrical Code (PEC) and applicable safety standards.

VI. LOT STRUCTURE (PURPOSE-BASED REQUIREMENTS)

1. LOT 1: EIGHT (8) UNITS OF MES INTEGRATED IN VEHICLE

1.1 Purpose:
Rapid deployment MES mounted on the vehicle for immediate emergency response.

1.2 Configuration

1.2.1 The MES shall be designed vehicle mounted or flatbed-integrated MES.
1.2.2 Direct load on vehicle bed or chassis
1.2.3 Payload Capacity 1.5 ton or 1500 kg and shall safely carry, position and support the MES without exceeding the manufacturer's rated payload, axle load, or gross vehicle weight limits.
1.2.4 Compatible with pick up/light vehicle
1.2.5 Rapid deploy/retract system
1.2.6 Quick deployment 270 degree awning system

1.3 Vehicle Requirement

1.3.1 The vehicle shall have an open or modular cargo bed suitable for MES;

The TOR does not require the Lot 1 MES to be transferable to another vehicle. The Lot 1 MES is vehiclemounted or flatbed-integrated and delivered together with the vehicle as one unit (Section VI, Lot 1, Items 1.2.1 and 1.2.2).

However, since the vehicle shall have an open or modular cargo bed suitable for the MES (Item 1.3.1), a demountable or modular MES design is acceptable, provided it complies with the securing and anchoring requirements for safe transport (Item 1.3.2) and all other TOR requirements

1.3.2 Include adequate securing and anchoring provision for safe transport; and

1.3.3 Be equipped with a reinforced chassis and suspension system capable of operating on uneven or unpaved terrain.

1.3.4 All vehicles supplied under Lot 1 shall be duly registered with the Land Transportation Office (LTO) and covered by valid Compulsory Third-Party Liability (CTPL) and comprehensive insurance prior to final contract acceptance. **Provisional acceptance of delivered units may be allowed where the issuance of the Certificate of Registration (CR), Official Receipt (OR), or permanent license plates is pending, provided that the Supplier submits a complete, duly received LTO registration application and proof of payment.** The Supplier shall submit the official LTO registration documents and permanent license plates upon their release as a condition for final contract acceptance and processing of the final milestone payment. All costs associated with registration and insurance shall be borne by the Supplier and shall be deemed included in the bid price.

2. LOT 2: FOURTEEN (14) UNITS OF MES (TOWABLE) FOR DISASTER RESPONSE

2.1 **Purpose:**
Standalone trailer-based MES for evacuation centers and emergency facilities.

2.2 **Configuration**

- 2.2.1 Trailer-mounted MES
- 2.2.2 Fully autonomous system (PV+ BESS+ Inverter)
- 2.2.3 Deployable onsite without vehicle detachment dependency

2.3 **Additional Requirements**

- 2.3.1 Towable single or tandem axle trailer
- 2.3.2 Stabilizer jacks for stationary operation
- 2.3.3 Quick deployment 270 degree awning system
- 2.3.4 Enhanced enclosure durability for field operations

2.4 **Mandatory Ancillary System**

- 2.4.1 Radio communication system
- 2.4.2 Tower/mast lighting
- 2.4.3 Satellite internet system
- 2.4.4 Online monitoring system

The enumeration of Mandatory Ancillary Systems under Section VI, Item 2.4 for Lot 2 is intended to emphasize, supplement, and reiterate the ancillary system requirements already established under Section V, Item 9.0 of the Common Baseline Technical Specifications.

Accordingly, such ancillary system requirements shall likewise apply to Lot 1, unless otherwise expressly exempted, modified, or superseded by specific provisions of the TOR or Supplemental/Bid Bulletin.

The **Bidder shall submit with its Bid** the technical datasheets and supporting documentation demonstrating the capabilities and compatibility of the proposed Hybrid Controller and Power Management System, including its capability to manage and coordinate power flow among the Solar PV system, BESS, diesel generator, and loads, as applicable.

VII. GENERAL OPERATIONAL REQUIREMENTS (ALL LOTS)

All MES units shall:

1. Provide minimum **2-day autonomy (≥ 26 kWh usable energy)**
2. Support continuous off-grid operation
3. Allow modular expansion and parallel operation (where applicable)
4. Include real-time monitoring system
5. Be fully tested and commissioned upon delivery

VIII. DOCUMENTATION AND OTHER REQUIREMENTS (ALL LOTS)

Bid Submission and Post-Qualification Validation. All documentary, technical, certification, compliance, warranty, and other requirements expressly identified in this TOR as Bid Submission Requirements shall be submitted together with the Bid.

No such document shall be required to be submitted for the first time during post-qualification.

Post-qualification shall be limited to the validation of the authenticity, validity, completeness, consistency, and conformity of the documents and representations already submitted with the Bid, including the presentation of original documents for verification when required under applicable procurement rules.

Documents that are generated only after award or during contract implementation, such as approved shop drawings, factory acceptance test (FAT) reports, commissioning reports, as-built drawings, final test results, and final acceptance documents, shall be submitted at the applicable stage of implementation and shall not be construed as Bid Submission Requirements.

1. **Technical Documents**
    a. **Full system datasheets and manufacturer brochures for all major components and equipment proposed**, including Solar PV modules, Battery Energy Storage System (BESS), inverter/power conversion system, Hybrid Controller/Power Management System, ACDB, protective devices, and other major equipment, as applicable;
    b. Single-line diagram (SLD)
    c. Electrical layout drawings
    d. Load and autonomy calculations
    e. Operation and Maintenance (O&M) manuals
    f. Preventive maintenance schedule
    g. List of spare parts and consumables
2. **Compliance Documents**
    a. Applicable **IEC certifications and test certificates for the proposed components and equipment**, including test certificates issued by IEC-accredited testing laboratories, where required under this TOR;
    b. **ISO 9001 certification of the manufacturer**, where required under this TOR;
    c. Battery transportation and safety documentation, including **UN 38.3**, as applicable; and

d. **Statement of compliance with the Philippine Electrical Code (PEC)** and other applicable codes and standards.
e. Test certificates shall be issued by IEC-accredited testing laboratories and ISO Certifications must be **submitted with the Bid**. During post-qualification, the Procuring Entity shall only validate the authenticity, validity, completeness, and conformity of the submitted documents, including the original documents where required under applicable procurement rules.

3. The Bidder shall submit with its Bid the proposed warranty documents covering the equipment and systems required under this TOR, including the applicable warranty period, coverage, exclusions, and warranty conditions.

IX. INTEGRATION PRINCIPLE

All MES Units under any LOT shall:

1. Be interoperable where technically applicable
2. Be modular and upgradeable
3. Support safe standalone or hybrid operation
4. Maintain compliance regardless of configuration

X. TESTING AND COMMISSIONING

The Supplier shall conduct all required testing and commissioning activities to verify the functionality, safety, performance, and compliance of the MES with the requirements of this TOR. The MES shall be demonstrated to be fully operational prior to acceptance by the Procuring Entity.

1. Factory acceptance test (FAT) results

The Supplier shall conduct a Factory Acceptance Test (FAT) on the MES units designated for Initial Delivery prior to shipment to the project sites.

The FAT shall verify compliance with the approved technical specifications, operational functionality, protection systems, safety features, and performance requirements of the TOR.

Detailed FAT procedures, test parameters, checklists, and pass/fail acceptance criteria may be finalized during contract implementation through coordination between the Procuring Entity and the Supplier.

Any non-conforming items identified during FAT shall be corrected, repaired, replaced, and/or re-tested by the supplier at no additional cost to the Procuring Entity prior to prior to final delivery acceptance of MES Units

The Supplier shall submit a complete FAT Report, including test procedures, test results, inspection records, certifications, corrective actions undertaken, and other supporting documentation demonstrating successful completion of the FAT and compliance with the requirements of this TOR.

The FAT Report and supporting documentation shall be submitted as part of the requirements for the payment milestone corresponding to the Initial Delivery of MES units and shall be subject to review and validation by the Procuring Entity.

Submission and acceptance of the FAT Report shall not relieve the Supplier of its obligation to successfully complete site testing, commissioning, performance verification, and final acceptance requirements upon delivery and installation of the MES units.

2. **Scope of Testing**

Testing and commissioning shall include, but not be limited to, the following:

- Verification of system configuration against the approved Technical Specifications and Bill of Quantities
- Solar PV generation testing under available site conditions
- Battery charging and discharging performance tests
- Inverter operation, load acceptance, and surge capability tests
- Verification of AC and DC protection devices and grounding system
- Functional testing of monitoring and control systems
- Demonstration of safe start-up, shutdown, and emergency isolation procedures

3. **Performance Verification**

The Supplier shall demonstrate compliance with the following minimum performance requirements:

- Minimum usable battery capacity of not less than 26 kWh
- Ability to supply critical loads equivalent to 10–13 kWh/day
- Stable operation under off-grid conditions
- Compliance with the minimum two (2) days autonomy requirement under defined load conditions

4. **Commissioning Report**

The Supplier shall submit a Testing and Commissioning Report, signed by both the Supplier and the Procuring Entity's authorized representative, documenting test procedures, results, and confirmation of compliance with the TOR.

XI. TRAINING AND OPERATION'S MANUAL

1. **Operations Manual**

The Supplier shall provide complete documentation, including technical data sheets, operation and maintenance manuals, as-built plans, system diagrams, test reports, and certifications, which shall be submitted prior to final acceptance.

2. **Conduct of Training**

2.1 The Supplier shall conduct hands-on training for the designated beneficiaries and/or end-users of the MES as part of the Contract, at no additional cost.

2.2 The training program shall be designed to ensure that participants are fully capable of safely, efficiently, and independently operating the system, particularly during disaster response and emergency situations. At a minimum, the training shall cover:

2.2.1 **System Overview and Components** – introduction to the MES, including solar PV array, inverter, battery system (e.g., $LiFePO_4$), control systems, and auxiliary equipment;

2.2.2 **Operational Procedures** – step-by-step instructions on system start-up, normal operation, load management, and shutdown procedures;

2.2.3 **Safety Protocols** – electrical safety, handling precautions, emergency response procedures, and hazard identification;

2.2.4 **Basic Troubleshooting** – identification of common faults, alarms, and recommended corrective actions;

2.2.5 **Preventive Maintenance and Care** – routine inspection, cleaning, battery management, and storage practices to prolong system life;

2.2.6 **Deployment and Mobility Procedures** – safe transport, setup, and commissioning of the MES in field conditions.

2.3 **On-Site Training**

The required training shall be conducted on-site at the respective target beneficiary or designated delivery site and shall not be conducted at any off-site or alternative venue, unless otherwise directed in writing by the Procuring Entity. All costs associated with the conduct of the training, including but not limited to personnel deployment, transportation, accommodation, equipment, materials, and other incidental expenses, shall be borne solely by the Supplier and shall be at no additional cost to the Department of Energy (DOE) or the end-user beneficiaries.

XII. HANDOVER AND ACCEPTANCE

1. **Handover**

After successful testing and commissioning, the Supplier shall turn over the complete final implementation and operational documentation generated during contract implementation, including as-built drawings, final test and commissioning records, O&M documentation, and other documents required for operation and maintenance of the MES.

2. **Acceptance**

Final acceptance shall be issued by the Procuring Entity only after:

- Completion of testing and commissioning
- Submission and approval of all required documents
- Completion of user training
- Rectification of any deficiencies or punch-list items

3. Issuance of the Certificate of Final Acceptance shall signify formal turnover of the MES units and the start of the warranty period.

4. The Contractor shall coordinate with the DOE-designated authorized representative/Inspection and Acceptance Team for the inspection, testing, commissioning, and acceptance of the Mobile Energy System (MES) at each designated site.

   The DOE-designated authorized representative/Inspection and Acceptance Team shall verify the completeness, functionality, safety, and compliance of the MES with the requirements of this TOR and the approved technical specifications. Upon satisfactory completion of the required inspection, testing, and commissioning, the authorized DOE representative shall sign the applicable Inspection and Acceptance Report, Certificate of Acceptance, or equivalent acceptance document. The Contractor shall be responsible for the proper planning, coordination, logistics, mobilization, and execution of all activities necessary to complete the delivery, installation, testing, commissioning, training, turnover, and final acceptance of the MES within the prescribed implementation period.

   The Contractor shall consider the site-specific conditions, accessibility, transportation requirements, weather conditions, and other reasonably foreseeable site requirements in its planning and mobilization.

XIII. WARRANTY

a. The Supplier shall warrant that all MES units and their components are all brand new, free from defects in materials and workmanship, and compliant with the Technical Specifications of this TOR.
b. The Supplier shall provide the following minimum warranty coverage:
c. For the purpose of the warranty. The Supplier shall include the specific cost items 1, 2, 3, 4 and 5. The cost of the warranty coverage for Items 1 to 5 shall be deemed included in the Bid Price.

No.	Component / System	Coverage	Minimum Period	Remarks
1	Complete MES System (integration, wiring, enclosure, awning, ancillary accessories)	Product/ Workmanship	1 year	Covers all defects in materials and workmanship; includes all MES components
2	Inverter / Power Conversion System	Product/ Performance	5 years	hybridEnsures stable operation and compliance with Technical Specifications
3	Battery Energy Storage System (BESS)	Product Warranty	5 years	Includes defects in materials and workmanship
		Performance Warranty	10 years or 6,000 cycles, whichever comes first	Guarantees usable energy, cycle life, and performance

				compliance
4	Solar PV Modules	Product Warranty	10 years	Covers defects and damage under normal use
		Performance Warranty	20 years	Minimum 84% of rated power at Year 25
5	Vehicle / Trailer	Manufacturer's Warranty	1 year	Standard warranty as per manufacturer

d. The Supplier shall provide warranty coverage for the MES and major system components in accordance with the requirements of the TOR and applicable procurement regulations.

Detailed procedures covering technical support response time, spare parts availability, repair or replacement process, preventive and corrective maintenance support, and fault verification/judgment procedures may be finalized during contract implementation and incorporated into the approved warranty and after-sales support plan.

The supplier shall ensure the availability of adequate technical support capability and replacement parts necessary to maintain the operational reliability of the MES during the warranty period.

XIV. SUBCONTRACTING

The Supplier may subcontract non-material, specialized components or ancillary services (e.g., trailer fabrication and logistics, installation of associated Distribution Lines), provided that:

a. The total value of all subcontracted portions shall not exceed twenty percent (20%) of the total Contract Price;
b. All subcontractors are disclosed and identified in the Supplier's technical bid;
c. Subcontractors comply with the equivalent nationality and eligibility requirements as the Supplier.

Subcontracting shall not relieve the Supplier of any liability or obligation under this procurement item. The Supplier and its subcontractors shall be jointly and severally liable to the Procuring Entity for the proper execution and quality of the subcontracted portion. Any subcontracting arrangement not disclosed during the bidding stage shall be strictly prohibited unless otherwise approved by the HoPE under exceptional circumstances.

XV. DELIVERY SCHEDULE (FOR ALL LOTS)

The Supplier shall be responsible for the complete implementation of the Project, including the production, delivery, installation, testing, commissioning, training, and final acceptance of the MES.

1. The Supplier shall be responsible for the production and delivery, installation, testing, commissioning, training, turnover, and final acceptance of all sixty-seven (67) MES Units, within one hundred twenty (120) calendar days from receipt of the Notice to Proceed (NTP).

2. **Production** – Manufacturing, assembly, integration, and pre-delivery testing of all MES units, including ancillary systems (e.g., radio, tower lights, Starlink, online monitoring, trailer spare tires), in accordance with the Technical Specifications of this TOR.

3. **The minimum delivery requirements per tranche are as follows:**

Delivery Tranche	**Timeline from NTP**	**Min. MES Units**
First	90 Calendar Days	Lot 1: 8 units Lot 2: 14 units Total: 22 units
Total	**90 Calendar Days**	**22**

4. The MES units delivered shall be fully assembled, operational, and compliant with the approved technical specification and requirement of this TOR.

5. Testing, commissioning, training, and turnover activities may be conducted progressively per tranche; provided that all such activities, together with the final acceptance of all MES units, shall be completed within the overall contract period of ninety (90) calendar days from receipt of the NTP

6. The Supplier shall submit, as part of the Inception Report, a Delivery and Deployment Plan indicating the proposed delivery schedule and recommended deployment areas for each tranche, subject to the approval of the Procuring Entity.

7. All costs associated with delivery—including but not limited to packing, loading, inland transport, insurance, permits, handling, unloading, and incidental expenses—shall be deemed included in the Contract Price. No additional payment shall be made for delivery-related activities.

8. Failure to meet the prescribed delivery schedule, or to complete testing, commissioning, training, turnover, and final acceptance within the ninety (90)-calendar-day contract period, shall subject the Supplier to the applicable provisions on delays and liquidated damages under the Contract.

XVI. RESPONSIBILITIES OF THE SUPPLIER

The Supplier shall be responsible for the complete and proper implementation of the Project including, but not limited to the following:

1. **Project Coordination and Planning**

1.1 Coordinate with the Procuring Entity and designated end-user for the orderly and effective implementation of the Project.

1.2 Conduct site inspection and assessment, as necessary, to verify site conditions, installation requirements, and suitability of deployment areas. The list of designated sites are attached herein as **Annex A**.

1.3 Prepare and submit a detailed Work Plan, including implementation schedule, delivery timeline, installation activities, testing, commissioning, and training program, subject to approval by the Procuring Entity.

1.4 Designate a Project Supervisor or authorized representative who shall serve as the primary point of contact for the Procuring Entity throughout project implementation.

2. Design, Supply, Delivery, and Installation

2.1 Design, supply, deliver, install, test, and commission the complete MES, including all associated electrical, structural, communication, monitoring, and ancillary systems, in accordance with this TOR and approved technical specifications.

2.2 Provide all necessary materials, tools, equipment, qualified personnel, and personal protective equipment (PPE) required for the proper execution of the Project.

2.3 Warrant proper packing, handling, transport, insurance, storage, and delivery of all equipment and materials until final inspection, testing, and acceptance by the Procuring Entity.

2.4 Install and commission the MES at the designated site(s), the list attached herein as **Annex A**, in accordance with approved plans, applicable codes, manufacturer recommendations, and the requirements of this TOR.

3. Technical Compliance

3.1 Warrant that all equipment, materials, and components supplied are brand new, free from defects, and fully compliant with the approved specifications, manufacturer standards, and applicable IEC, PEC, and DOE requirements.

3.2 Submit with the Bid all required certifications, test reports, warranties, manuals, brochures, datasheets, and other supporting documents expressly required under this TOR to demonstrate compliance with the technical and documentary requirements.

Documents that are generated only during contract implementation, such as Factory Acceptance Test (FAT) reports, commissioning reports, as-built drawings, and final acceptance records, shall be submitted at the applicable implementation or acceptance milestone.

3.3 Warrant that the MES configuration applicable to the Lot(s) being bid—whether vehicle-integrated, towable for disaster response, or towable for electrification—is fully compliant with the corresponding technical, operational, transport, mounting, deployment, and safety requirements specified in this TOR.

3.4 Where applicable, ensure compatibility with temporary electrification systems, distribution line interfaces, load management requirements, and safe operation in off-grid, unserved, or disaster-affected areas.

4. Safety and Personnel

4.1 Implement all necessary occupational health and safety measures during delivery, installation, testing, and commissioning, including the provision of warning signs, barriers, and site safety controls as required.

4.2 Warrant that all deployed personnel are qualified, properly authorized, and appropriately identified while engaged in project implementation.

5. Liability and Accountability

5.1 Be solely responsible for any loss, damage, injury, or third-party claim arising from the execution of the Project due to the Supplier's acts, omissions, negligence, or non-compliance with applicable laws, standards, and contractual obligations.

5.2 Correct, replace, or rectify, at no additional cost to the Procuring Entity, any defective work, damaged equipment, or non-conforming deliverable identified prior to final acceptance or during the warranty period, in accordance with the Contract.

6. Multi-Lot Compliance

6.1 For bidders participating in multiple Lots, each Lot shall be treated as a separate contractual deliverable and shall independently comply with the technical specifications, documentary requirements, delivery schedules, and performance standards applicable to that Lot.

For each Lot being offered, the Bidder shall submit with its Bid the complete technical, operational, certification, compliance, warranty, and other documentary requirements applicable to such Lot under this TOR.

6.2 The Supplier shall clearly identify in its bid submission the Lot(s) being offered and submit complete technical, operational, and documentary compliance for each Lot.

XVII. MANPOWER REQUIREMENTS

The Supplier shall deploy a qualified team to ensure the effective implementation of the project, covering all phases from supply, delivery, installation, testing and commissioning. At a minimum, the following key personnel shall be required:

1. **Project Supervisor / Authorized Representative** - as primary point of contact with the Procuring Entity and shall oversee the overall execution and coordination of all contractual obligations.
2. **Installation and Commissioning Team -** technical personnel responsible for the assembly, installation, setup, testing, and commissioning of the MES at designated project sites.

Following minimum personnel per deployment site:

a. One (1) Lead Electrical Technician / Supervisor - must have relevant experience in installation and commissioning of solar PV or similar energy systems; responsible for overseeing on-site activities and ensuring compliance with technical plans.
b. One (1) Qualified Electrical Technician - must be skilled in electrical installation, wiring, and system integration, and capable of assisting in assembly, installation, and testing of MES components.
c. One (1) Helper / Utility Personnel - provides support in equipment handling, basic assembly, and site preparation.

The Supplier may increase the number of personnel or adjust team composition, provided that the minimum requirements are met and all works are completed within prescribed schedule and in accordance with the TOR. The Supplier shall be solely responsible for the wages, benefits, tools and equipment, and other arrangements and legal obligations with regard to the additional personnel.

3. **Training Instructors -** qualified personnel responsible for conducting hands-on training for end-users and beneficiaries covering system operation, safety procedures, basic troubleshooting and maintenance practices.

XVIII. PATENT AND INTELLECTUAL PROPERTY RIGHTS

The Supplier shall indemnify and hold harmless the Procuring Entity against any and all third-party claims of infringement of patents, trademarks, copyrights, or industrial design rights arising from the use, operation of the Mobile Energy System (MES) or any of its components. The Supplier shall be responsible for all costs, damages, and legal fees resulting from such claims.

Notwithstanding any intellectual property rights associated with the MES, the Supplier shall grant the DOE and designated beneficiaries a perpetual, non- exclusive, royalty - free, and irrevocable license to access, operate, maintain, monitor, and utilize the MES and all software, firmware, technical documentation, manuals and other materials necessary for its complete and uninterrupted operation. The exercise of such rights by the DOE and its designated beneficiaries shall not constitute an infringement of the Supplier's intellectual property rights and shall remain effective for the entire operational life of the MES.

XIX. DELAYS

Delivery of the MES units and/or performance of associated services shall strictly adhere to the Schedule of Requirements specified by the Procuring Entity.

If the Supplier encounters any circumstances likely to impede timely delivery or performance, it shall promptly notify the Procuring Entity in writing, stating the cause, expected duration, and corrective actions.

Upon receipt, the Procuring Entity shall evaluate the situation and may, if justified, grant an extension of time, formalized through a Contract amendment pursuant to applicable laws,

rules and regulations.

Any delay in the Supplier's performance shall render the Supplier liable to liquidated damages as provided in the bidding documents and under RA No. 12009 and its IRR, unless an agreed extension has been granted pursuant to the Terms of Reference and bidding documents.

XX. LIQUIDATED DAMAGES

If the Supplier fails to deliver the MES units satisfactorily within the agreed schedule, including any approved extensions, the Supplier shall pay liquidated damages equal to 0.1% (one-tenth of one percent) of the cost of the delayed goods per day of delay until delivery and acceptance by the Procuring Entity.

- The Procuring Entity is not required to prove actual damages to claim liquidated damages.
- The amount may be deducted from payments due to the Supplier or collected from posted securities or warranties, at the discretion of the Procuring Entity.
- If total liquidated damages reach 10% of the total contract price, the Procuring Entity may rescind the Contract and impose additional sanctions.

If delays occur due to factors beyond the Supplier's control, the Supplier shall provide prompt written notice with full details. The Procuring Entity may grant a time extension, at its discretion, with or without adjusting liquidated damages, based on meritorious grounds and applicable laws, rules and regulations.

XXI. SCHEDULE OF PAYMENT

The Payment shall be made to the Supplier in accordance with the applicable government and auditing rules and regulations, subject to the submission of complete supporting documents and certifications by the Procuring Entity.

General Conditions

1. Payment shall be made based on the actual awarded Lot(s) and corresponding Contract Price.
2. Payments shall follow the approved delivery schedule - Section XV.
3. All payments are subject to inspection, testing, commissioning, and issuance of Acceptance Documents.
4. No payment shall be made for unawarded Lots or unaccepted deliverables.
5. For this project, five percent (5%) shall be deducted as retention money per progress billing.
6. For each progress billing, the service provider is required to issue an official billing statement. All payments are subject to taxes and shall be made only upon receipt by the DOE of the required deliverables for the billed milestone.
7. Retention money will be released after one (1) year upon the issuance of the Certificate of Final Acceptance and Satisfactory Performance by the DOE, subject to the evaluation of the compliance and operability of the MES units pursuant to this TOR.
8. The hardware components shall be supported by the Warranty Certificate(s) for each component and duration, as indicated in this TOR.

A. PAYMENT SCHEDULE– +

B. LOT 1 & LOT 2 (DISASTER RESPONSE PRIORITY) - Applies if bidder is awarded Lot 1 and/or 2 only, or combined

No.	Deliverables	Requirement	Percentage of Total Contract Amount	Delivery Schedule
1	Inception Report, MES Design and Work Plan	Billing/Invoice, Approved Design & Work Plan	15%	Within 15 CD from NTP
2	Initial Delivery of MES Units Lot 1 - 8 Units Lot 2 - 14 Units	Billing/Invoice, FAT Report, Delivery Receipts, Inspection Report, Partial Acceptance	70%	Within 90 CD from NTP
3	Completion of Delivery, Testing, Commissioning, Training, and Final Acceptance	Billing/Invoice, Final Inspection, Commissioning Report, Training Report, Certificate of Final Acceptance	15%	Within 10 CD after Completion
TOTAL			100.00%	

The Bidder may propose partial delivery of the goods within the required delivery period, subject to the prior written approval of the DOE. Any approval granted for partial delivery shall be for logistical and operational purposes only and shall not constitute a basis for any change in the payment terms, contract price, delivery obligations, warranties, or any other contractual requirements, unless otherwise expressly agreed to in writing by the DOE.

XXII. AFTER-SALES SERVICE AND TECHNICAL SUPPORT

The Supplier shall provide comprehensive after-sales service and technical support for all MES units supplied under this Project to ensure continuous, reliable, and safe operation throughout the warranty period.

1. Scope of After-Sales Service

The after-sales service shall include, but not be limited to, the following:

a. Technical assistance and customer support for operational concerns, system troubleshooting, and maintenance inquiries;
b. Preventive maintenance services, inspection, diagnostics, software/firmware updates, and system performance evaluation;
c. Corrective maintenance and repair of defective or malfunctioning components, including replacement of parts covered by warranty;
d. On-site technical support and emergency response services when remote troubleshooting is insufficient;
e. Provision of qualified service personnel, tools, testing equipment, and spare parts necessary to restore system operability; and
f. Continuous support for the monitoring system, communication devices, ancillary systems, and integration of components supplied under the Contract.

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2. Service Response Time

The Supplier shall maintain an accessible technical support mechanism throughout the warranty period and comply with the following minimum response requirements:

a. Acknowledge all technical concerns within twenty-four (24) hours from receipt of notice by the Procuring Entity;
b. Provide remote technical assessment or troubleshooting within forty-eight (48) hours;
c. Mobilize qualified technical personnel for on-site support within:
    i. Five (5) calendar days for Luzon sites;
    ii. Seven (7) calendar days for Visayas and Mindanao sites; or
    iii. Within a reasonable period acceptable to the Procuring Entity for geographically isolated and disadvantaged areas (GIDAs), considering weather and transport conditions.
d. Restore the affected MES unit to operational condition within fifteen (15) calendar days from inspection, unless replacement parts or force majeure conditions reasonably require a longer rectification period, subject to approval by the Procuring Entity.

3. Spare Parts and Consumables

a. The Supplier shall ensure the availability of critical spare parts, replacement components, and consumables necessary for maintenance and repair during the warranty period.
b. The Supplier shall submit a recommended spare parts list, including indicative lead times and serviceable components, as part of the project documentation.
c. Replacement parts supplied during the warranty period shall be brand new, compatible with the MES, and compliant with the Technical Specifications.

4. Service Center and Technical Contact

a. The Supplier shall designate an official technical support contact person and provide the corresponding contact details, including mobile number, email address, and service hotline.
b. The Supplier shall maintain a local service capability, authorized service partner, or technical representative within the Philippines capable of supporting all deployed MES units.

5. Preventive Maintenance Obligations

The Supplier shall conduct preventive maintenance inspections **at least twice (2) during the one (1)-year warranty period**, with the warranty period commencing upon the **final acceptance of the Mobile Energy System (MES)** by the Procuring Entity. Preventive maintenance inspections shall be performed at a **semi-annual frequency**, or approximately **once every six (6) months**, unless otherwise approved by the Procuring Entity.

Preventive maintenance and on-site warranty response shall be rendered at the site where the MES is deployed at the time of the request, anywhere in the Philippines. The DOE shall inform the Supplier of any relocation, and the location of each unit can also be tracked through the online monitoring system.

Since the MES is designed to be mobile, the cost of servicing relocated units is the Supplier's responsibility and shall be deemed included in the bid price. The response times in Section XXII, Item 2 shall apply based on the island group of the current location, with a reasonable period allowed for GIDAs.

The preventive maintenance shall include:

a. Inspection of PV modules, mounting systems, and wiring;
b. Battery diagnostics and BMS verification;
c. Inverter and protection system inspection;
d. Functional testing of ancillary systems;
e. Verification of grounding and safety devices; and
f. Submission of maintenance service reports to the Procuring Entity.

6. Failure to Provide Support

Failure of the Supplier to provide the required after-sales support, response, repair, or warranty services within the prescribed periods, without valid justification acceptable to the Procuring Entity, shall constitute grounds for the imposition of applicable penalties, warranty enforcement measures, or other remedies under the Contract and applicable procurement laws, rules, and regulations.

ANNEX A
List of Areas for Deployment of MES Units

Lot 1 — MES Integrated in Vehicle

Island Group	DOE Office	Province	Target HHs Beneficiaries	Location	Coordinates	No. MES	Unit Cost (M Php)
Luzon	Main Office	Manila	~400	Energy Center, 34th St., Rizal Drive, Bonifacio Global City, Taguig City, Philippines 1632	14.553439, 121.056942	5	10
Visayas	Visayas Office	Cebu	~100	Escario Building, 0735 N Escario St, Cebu City, 6000 Cebu	10.317049, 123.893128	2	10
Mindanao	Mindanao Office	Davao	~100	3rd Floor, Tolentino 2020 Building, Candelaria Avenue Ecoland, Matina Pangi Rd, Davao City, 8000 Davao del Sur	7.053991, 125.602462	1	10
Total			**~600**			**8**	**80,000,000**

Lot 2 — MES (Towable) for Disaster Response

Island Group	Distribution Utility	Province	Target HHs	No. MES	Unit Cost (M Php)	DU Main Office Location	Coordinates
Luzon	BATANELCO	Batanes	~200	2	8.3	Basco, 3900 Batanes	20.444523, 121.967353
Luzon	ORMECO	Oriental Mindoro	~100	1	8.3	Brgy. Sta. Isabel, Calapan City, Oriental Mindoro	13.369246, 121.161177
Luzon	FICELCO	Catanduanes	~100	1	8.3	Marinawa, Bato, 4801 Catanduanes	13.596121, 124.266743
Luzon	TISELCO	Masbate	~100	1	8.3	San Jacinto, Ticao Island, 5417 Masbate	12.567047, 123.736745
Luzon	CANORECO	Camarines Norte	~100	1	8.3	Jose P. Rizal St., Daet, 4600 Camarines Norte	14.126508, 122.937920
Luzon	AURELCO	Aurora	~100	1	8.3	Barangay Reserva, Baler, 3200 Aurora	15.843588, 121.540720
Visayas	ESAMELCO	Eastern Samar	~200	2	8.3	Borongan City, 6800 Eastern Samar	11.659886, 125.461072
Visayas	NORSAMELCO	Northern Samar	~200	2	8.3	Brgy. Magsaysay Bobon, 6401 Northern Samar	12.509863, 124.590446
Visayas	ILECO III	Iloilo	~100	1	8.3	Brgy. Preciosa, Sara, 5014 Iloilo	11.253967, 123.003879
Visayas	NOCECO	Negros Occidental	~100	1	8.3	Kabankalan City, 6127 Negros Occidental	9.999506, 122.812965
Visayas	LEYECO II	Leyte	~100	1	8.3	Real St. Sagkahan District, Tacloban City, 6500 Leyte	11.229470, 125.001322
Total			**~1,400**	**14**	**116,200,000**		

ANNEX B
Similar Projects for Single Largest Completed Contract (SLCC)

SLCC REQUIREMENT FOR MOBILE ENERGY SYSTEM (MES)

The SLCC shall demonstrate the Bidder's capability to supply, integrate, install, test, and commission an energy system of technical scope and complexity comparable to the Mobile Energy System (MES).

I. Similar Contracts without need of Justification

Similarity shall be assessed based on the system function, technical scope, scale, integration requirements, and complexity of the completed contract, and not solely on the title or name of the project.

For purposes of determining similarity, an acceptable similar project shall fall under any one of the following categories:

1. Off-grid or stand-alone power systems, including renewable energy-based systems, supplying electricity to households, communities, facilities, or other loads;

2. Solar photovoltaic (PV) energy systems, whether or not integrated with Battery Energy Storage Systems (BESS), that are comparable in scale, scope and technical complexity to the MES contemplated under the TOR.

   However, for completed projects consisting of small-scale PV system/s, i.e., household electrification, community/facility power supply, or other PV Mainstreaming (PVM) projects, the bidder cannot satisfy the SLCC requirement by simply aggregating the total capacity, units or contract value across multiple small installations.

   In such cases, the bidder must submit a Justification for Equivalency proving how the technical architecture, system integration, energy management, and deployment complexity of the cited project are functionally equivalent to the MES;

3. Battery Energy Storage System (BESS) projects, whether standalone or integrated with renewable energy, conventional generation, or an existing power system, including BESS used for backup, standby, peak management, energy shifting, or other power supply applications;

4. Microgrid, grid-connected (gridtied) microgrid, islanded microgrid, distributed energy resource (DER), hybrid power systems, or similar integrated energy systems, including the design, supply, installation, commissioning, operation, and/or maintenance of renewable energy generation facilities, battery energy storage systems (BESS), backup or standby generation, power conversion and inverter systems, energy management and microgrid control systems, SCADA and communication systems, protection and automation systems, distribution

and interconnection facilities, and other related electrical infrastructure; or

5. Temporary, mobile, transportable, or emergency power systems, including systems deployed for emergency response, disaster recovery, contingency power supply, temporary electrification, or restoration of power to affected or critical facilities.

II. Contracts Requiring Justification for Equivalency of SLCC

Where the submitted SLCC does not fall within any of the foregoing categories of similar projects but demonstrates substantially equivalent technical capability, scope, and complexity comparable to the MES, the Bidder may submit a written justification of equivalency, together with supporting documents demonstrating such equivalency.

The SLCC shall be supported by the documents, such as, but not limited to, Certificate of Completion or Acceptance; Contract Agreement and/or Purchase Order; end-user certification; Commissioning Report, where applicable; and System Technical Summary describing the scope, major equipment, capacity and principal technical features of the completed project.

The BAC shall evaluate and determine the similarity or equivalency of the submitted contract/s during bid evaluation and post-qualification based on the required supporting documents

Under both Items I and II, the Procuring Entity reserves the right to evaluate the submitted completed contracts based on system functionality, technical scope, scale, integration requirements, and operational complexity relative to the specifications outlined in the TOR and its Annexes

Supporting Documents for SLCC

The SLCC shall be supported by the following documents, which shall be submitted with the Bid:

a. Certificate of Completion or Acceptance;

b. Contract Agreement and/or Purchase Order;

c. Certification from the end-user, where applicable;

d. Commissioning Report, where applicable; and

e. System Technical Summary describing the scope, major equipment, capacity, and principal technical features of the completed project.

During post-qualification, the Procuring Entity shall validate the authenticity, validity, completeness, and conformity of the submitted SLCC documents against the original documents, as required under applicable procurement rules.

Annex C
Visual Design, Color, and Branding Specifications

MOBILE ENERGY SYSTEM

Annex D
Master Summary by Delivery Tranche

Lot	Major Island	Region / Office	Province	Distribution Utility / Station	MES Units	Delivery Tranche	Timeline (From NTP)
Lot 1	Luzon	Main Office	Manila	DOE Manila	2	1st	90 Calendar Days
Lot 1	Visayas	Visayas Office	Cebu	DOE Cebu	2	1st	90 Calendar Day
Lot 1	Mindanao	Mindanao Office	Davao	DOE Davao	1	1st	90 Calendar Day
Lot 1	Luzon	Main Office	Manila	DOE Manila	3	1st	90 Calendar Day
Lot 2	Luzon	Region II	Batanes	BATANELCO	2	1st	90 Calendar Day
Lot 2	Luzon	Region IV-B	Oriental Mindoro	ORMECO	1	1st	90 Calendar Day
Lot 2	Luzon	Region V	Catanduanes	FICELCO	1	1st	90 Calendar Day
Lot 2	Luzon	Region V	Camarines Norte	CANORECO	1	1st	90 Calendar Day
Lot 2	Luzon	Region V	Masbate	TISELCO	1	1st	90 Calendar Day
Lot 2	Luzon	Region III	Aurora	AURELCO	1	1st	90 Calendar Day
Lot 2	Visayas	Region VI	Iloilo	ILECO III	1	1st	90 Calendar Day
Lot 2	Visayas	Region VI	Negros Occidental	NOCECO	1	1st	90 Calendar Day
Lot 2	Visayas	Region VIII	Eastern Samar	ESAMELCO	2	1st	90 Calendar Day
Lot 2	Visayas	Region VIII	Northern Samar	NORSAMELCO	2	1st	90 Calendar Day
Lot 2	Visayas	Region VIII	Leyte	LEYECO II	1	1st	90 Calendar Day
TOTAL					22		

Special Conditions of Contract

GCC Clause	
1	**Delivery and Documents –** For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: "The delivery terms applicable to the Contract are DDP. It **shall be delivered to the Department of Energy, BGC, Taguig**. In accordance with INCOTERMS." "The delivery terms applicable to this Contract are delivered. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination." Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Schedule of Requirements. **Incidental Services –** Not applicable. **Spare Parts –** Not applicable.
	Packaging – Not applicable. **Transportation –** Not applicable **Intellectual Property Rights –** Not applicable.
2.2	**A. PAYMENT SCHEDULE– +** **B. LOT 1 & LOT 2 (DISASTER RESPONSE PRIORITY) - Applies if bidder is awarded Lot 1 and/or 2 only, or combined**

	<table><tr><th>No.</th><th>Deliverables</th><th>Requirement</th><th>Percentage of Total Contract Amount</th><th>Delivery Schedule</th></tr><tr><td>1</td><td>Inception Report, MES Design and Work Plan</td><td>Billing/Invoice, Approved Design & Work Plan</td><td>15%</td><td>Within 15 CD from NTP</td></tr><tr><td>2</td><td>Initial Delivery of MES Units Lot 1 - 8 Units Lot 2 - 14 Units</td><td>Billing/Invoice, FAT Report, Delivery Receipts, Inspection Report, Partial Acceptance</td><td>70%</td><td>Within 90 CD from NTP</td></tr><tr><td>3</td><td>Completion of Delivery, Testing, Commissioning, Training, and Final Acceptance</td><td>Billing/Invoice, Final Inspection, Commissioning Report, Training Report, Certificate of Final Acceptance</td><td>15%</td><td>Within 10 CD after Completion</td></tr><tr><td colspan="2">TOTAL</td><td></td><td>100.00%</td><td></td></tr></table> The Bidder may propose partial delivery of the goods within the required delivery period, subject to the prior written approval of the DOE. Any approval granted for partial delivery shall be for logistical and operational purposes only and shall not constitute a basis for any change in the payment terms, contract price, delivery obligations, warranties, or any other contractual requirements, unless otherwise expressly agreed to in writing by the DOE.
4	*The inspections and tests that will be conducted are:* ***As required under the TOR***

Bidding Forms

Mandatory Submission of Bidding Forms

ANNEX A

STATEMENT OF ONGOING AND/OR AWARDED CONTRACTS

The Bids and Awards Committee
Department of Energy
Energy Center, Rizal Drive, Bonifacio Global City
Taguig, Metro Manila

Ongoing, completed or awarded but not yet started projects for the period: last five (5) years, where applicable.

Procuring Entity / Date of Contract	Kinds of Goods Sold and/or Services Offered	Amount of Contract and Value of Outstanding Contracts	Date of Delivery	Specify whether a Prospective Bidder is a Manufacturer, Supplier, Distributor or Service Provider	Indicate whether "Similar "or "Not Similar"

Submitted By:

_____

(Signature over Printed Name)

Note:
1. May be reproduced, if necessary
2. Please attach end-user's certificate of acceptance

STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT

The Bids and Awards
Committee Department of
Energy
Energy Center, Rizal Drive, Bonifacio Global City
Taguig, Metro Manila

Single Largest Completed Contract (SLCC) for the period: last five (5) years, where applicable.

Procuring Entity / Date of Contract	Kinds of Goods Sold and/or Services Offered	Amount of Contract and Value of Outstanding Contracts	Date of Delivery	Specify whether a Prospective Bidder is a Manufacturer, Supplier, Distributor or Service Provider	Indicate whether "Similar "or "Not Similar"

Submitted By:

_____
(Signature over Printed Name)

Note:

1. May be reproduced, if necessary
2. Please attach end-user's certificate of acceptance

Bid Securing Declaration Form

[The duly accomplished form shall be submitted with the Bid if bidder opts to provide this type of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

BID SECURING DECLARATION

Project Identification No.: *[Number]*

To: *[Insert name of the Procuring Entity]*

I/We, the undersigned, declare that:

1) I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration;

   [Insert paragraph for Unsolicited Offer with Bid Matching]

   I/We understand that upon conferment of the original offeror status under Section 30.6 of the Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 12009, the offeror shall submit a Bid Securing Declaration within ten (10) days from the receipt of the certificate of conferment;

2) Select one, delete the other:

   - I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any Procuring Entity upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the Procuring Entity for the commission of acts resulting to the enforcement of the Bid Securing Declaration under Sections 52.2 (a), 63.2, 69.1 and 100, except 100.3 (c),of the IRR of Republic Act No. 12009; without prejudice to other legal action the government may undertake; and

   (For Unsolicited Offer with Bid Matching)

   - I/We accept that: I/we will be automatically disqualified from any procurement opportunity of the Procuring Entity for a period of one (1) year on the first offense, two (2) years on the second offense, and perpetually on the third offense without prejudice to other legal action the government may undertake.

3) I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

   Upon expiration of the bid validity period, or any extension thereof pursuant to your request;

   I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;

[Insert this paragraph for Unsolicited Offer with Bid Matching]

Upon contract award and the LCCRB is not the original offeror; or

I am/we are declared the bidder with the *[Insert Award Criterion[1]]* and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month] [year]* at *[place of execution]*.

Duly authorized to sign the Bid for and behalf of:

[Insert Bidder's Name]

[Signature over Printed Name]
[Position/Designation]
[Date]

JURAT

SUBSCRIBED AND SWORN to before me this _____ day of *[month] [year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____.

WITNESS MY HAND AND SEAL this ___ day of *[month] [year].*

NAME OF NOTARY PUBLIC
Notarial Commission No. _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. __, *[date issued], [place issued]*
IBP No. __, *[date issued], [place issued]*

Doc. No. _____
Page No. _____
Book No. _____
Series of _____.

Omnibus Sworn Statement Form

[Note: The duly accomplished form shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

OMNIBUS SWORN STATEMENT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and with residence at [*Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. *Select one, delete the others:*

   - *If sole proprietorship:* I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[Address of Bidder]*;

   - *If partnership, corporation, cooperative, or joint venture:* I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[Address of Bidder]*;

   - *If individual consultant not registered under a sole proprietorship, in case of Consulting Services:* I am the individual consultant or authorized representative of *[Name of Bidder]* with office address at *[Address of Bidder]*;

2. ***Select one, delete the others:***

   - *If sole proprietorship:* As the owner and sole proprietor or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Project Title]* of the *[Name of the Procuring Entity][insert* "as supported by the attached duly notarized Special Power of Attorney" *for authorized representative]*;

   - *If partnership, corporation, cooperative, or joint venture:* I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Project Title]* of the *[Name of the Procuring Entity]*, as supported by the attached duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable*;*

   - *If individual consultant not registered under a sole proprietorship, in case of Consulting Services:* As the individual consultant or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Project Title]* of the *[Name of the Procuring Entity]*, as supported by the attached duly notarized Special Power of Attorney *for authorized representative*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board; by itself or by

relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *Select one, delete the others:*

   - *If sole proprietorship :* The *[Name of Bidder]* and its spouse are not related by consanguinity or affinity up to the third civil degree to the Head of the Procuring Entity, Procurement Agent (if engaged), End-User or Implementing Unit, project consultants, head of the Project Management Office, or the members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat;

   - *If partnership :* The partnership itself and the partners of *[Name of Bidder]* are not related by consanguinity or affinity up to the third civil degree to the Head of the Procuring Entity, Procurement Agent (if engaged), End-User or Implementing Unit, project consultants, head of the Project Management Office, or the members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat;

   - *If cooperative:* The cooperative itself and members of the board of directors, general manager, or chief executive officer of *[Name of Bidder]* are not related by consanguinity or affinity up to the third civil degree to the Head of the Procuring Entity, Procurement Agent (if engaged), End-User or Implementing Unit, project consultants, head of the Project Management Office, or the members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat;

   - *If corporation, or joint venture:* The corporation or joint venture itself, and officers, directors, and controlling stockholders of *[Name of Bidder]* are not related by consanguinity or affinity up to the third civil degree to the Head of the Procuring Entity, Procurement Agent (if engaged), End-User or Implementing Unit, project consultants, head of the Project Management Office, or the members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat;

   - *If individual consultant not registered under a sole proprietorship, in case of Consulting Services:* The individual consultant and its spouse are not related by consanguinity or affinity up to the third civil degree to the Head of the Procuring Entity, Procurement Agent (if engaged), End-User or Implementing Unit, project consultants, head of the Project Management Office, or the members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat;

7. It is understood that failure to faithfully disclose its relationship with the Head of the Procuring Entity, members of the BAC, the TWG, and the BAC Secretariat, the head of the PMO or the end-user unit or implementing unit, and the project consultants of the Procuring Entity, or of the procurement agent by consanguinity or affinity up to the third civil degree, as well as its submission of beneficial ownership information containing false entries shall be subject to blacklisting under Section 100 of the Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 12009, without prejudice to criminal and civil liabilities under applicable laws, including their accessory penalties, if any.

Select one, delete the rest:

- *In case of corporations: [Name of Bidder]* declares its beneficial ownership information consistent with its updated General Information Sheet or Beneficial Ownership Declaration Form or any other document duly submitted to the SEC and has maintained a valid and updated file therein in compliance with Sections 20.2.9.1, 81, and 82 of the IRR of RA No. 12009.

- *In case of Foreign Bidders: [Name of Bidder]* submitted an appropriate equivalent document in English issued by the country of the bidder concerned in accordance with Section 20.2.9.2 of the IRR of RA No. 12009.

8. *[Name of Bidder]* complies with existing labor laws and standards; and

9. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:

    b) Carefully examine all of the Bidding Documents;

    c) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;

    d) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

    e) Inquire or secure Supplemental Bid Bulletin(s) issued for the *[Project Title]*.

10. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

11. In case advance payment was made or given to *[Name of Bidder]*, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability under existing laws.

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

Duly authorized to sign the Bid for and behalf of:

[Insert Bidder's Name]

[Affiant's Signature over Printed Name]
[Position/Designation]
[Date]

JURAT

SUBSCRIBED AND SWORN to before me this _____ day of *[month] [year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____.

WITNESS MY HAND AND SEAL this ___ day of *[month] [year].*

NAME OF NOTARY PUBLIC
Notarial Commission No. _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. __, *[date issued], [place issued]*
IBP No. __, *[date issued], [place issued]*

Doc. No. _____
Page No. _____
Book No. _____
Series of _____.

Bid Form for Procurement of Goods

[Note: The duly accomplished form shall be submitted with the Bid]

BID FORM

Project Identification No.: *[Insert number]*

To: [Name of Procuring Entity]

Having examined the Philippine Bidding Documents (PBD) including the Supplemental Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

a) I/We have no reservation to the PBD, including the Supplemental Bid Bulletins, for the Procurement Project [Project Title];

b) Select one, delete the other

- I/We undertake to deliver the Goods in accordance with the delivery schedule in the Schedule of Requirements;
- I/We offer to execute the Works for this Contract in accordance with the PBD;

c) The total price of our Bid in words and figures, excluding any discount offered below, is *[insert information]*

d) The discounts offered and the methodology for their application, if any, are: *[insert information];* or indicate N/A if no discount offered]

e) The total bid price in words and figures, after applying the applicable discount, includes the cost of all taxes, such as, but not limited to *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized in the *[Select one, delete the other:* the Price Schedules/ Detailed Estimates].

f) This Bid shall remain valid within a period stated in the PBD, and it shall be binding upon me/us at any time before the expiration of that period;

g) If our bid is accepted, I/we commit to enter to a contract and provide a performance security in the form, amounts, and within the times prescribed in the PBD, and hereby acknowledge the consequences under the IRR of RA No. 12009 on forfeiture of Bid Security or enforcement of Bid Securing Declaration and on Blacklisting.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon the Bidder.

I/We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

I/We certify/confirm that we comply with the eligibility requirements pursuant to the PBD.

The undersigned is authorized to submit the bid on behalf of [Name of the Bidder] as evidenced by the attached [State the Written Authority].

I/We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Duly authorized to sign the Bid for and behalf of:

[Insert Bidder's Name]

[Signature over Printed Name]
[Position/Designation]
[Date]

Price Schedule for Goods

Name of Bidder _____. Project ID No. _____. Page _ of _____

Pricing Details for Goods Offered from Within the Philippines

1	2	3	4	5	6	7	8	9	10
Item	Description	Source of Domestic Product, as certified by the Relevant Agency	Quantity	Unit price exw per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col5+6+7+8)	Total Price delivered Final Destination (col 9)x(col 4)

Summary of Bid Prices

*The Procuring Entity may modify the table below as necessary to comply with the requirements of the Procurement Proje*ct.

1	2	3	4
Item No.	Item	Particulars / Description	Total Amount

Name: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Price Schedule for Goods

Name of Bidder _____. Project ID No. _____. Page _ of _____

Pricing Details for Goods Offered from Abroad

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)

Summary of Bid Prices

The Procuring Entity may modify the table below as necessary to comply with the requirements of a specific Project.

1	2	3	4
Item No.	Item	Particulars / Description	Total Amount

Name: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Price Schedule for Goods Offered from Within the Philippines
[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No._____ Page ___of___

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

Name: _____
Legal Capacity: _____
Signature: _____
Duly authorized to sign the Bid for and behalf _____

Contract Form

[Note: The duly accomplished form is not required to be submitted with the Bid but shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT FOR [Insert Project Title]

This CONTRACT executed on the _____ day of _____ 20_____ by and between:

[Name of Procuring Entity], a government agency of the Republic of the Philippines, hereinafter called "the Entity";

-and-

[Name of Supplier /Contractor/ Consultant] a company duly organized and existing under the laws of [city and country], with principal office at [insert address], hereinafter called "the Supplier/Contractor/Consultant".

WHEREAS**,** the Entity invited Bids for certain goods and services/works/consulting services, particularly *[Brief description of Project]*;

WHEREAS, the Supplier/Contractor/Consultant submitted a responsive bid and was awarded the contract for the procurement in the total amount of *[Contract price in words and figures, including currency],* hereinafter referred to as the "Contract Price."

NOW, THEREFORE, for and in consideration of the foregoing premises, the parties hereby agree as follows:

1. Unless otherwise stated, terms and expressions used in this Contract shall have the same meanings as those assigned to them in the Conditions of Contract, which form an integral part of this Contract.

2. The following documents as required by the Implementing Rules and Regulations of Republic Act No. 12009 shall form part and be read and construed as integral parts of this Contract, *viz.*:

   a. Philippine Bidding Documents (PBD); *[Select one, delete the others]*

   - *For Procurement of Goods*

     i. Invitation to Bid;
     ii. Instruction to Bidders;
     iii. Bid Form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
     iv. Bid Data Sheet;
     v. Schedule of Requirements;
     vi. Technical Specifications;
     vii. General and Special Conditions of Contract;
     viii. Supplemental Bid Bulletins, if any; and
     ix. Other contract documents that may be required by existing laws and/or the Entity.

- *For Procurement of Infrastructure Projects*

  i. Drawings/Plans;
  ii. Scope of Work;
  iii. Invitation to Bid;
  iv. Instructions to Bidders;
  v. Bid Data Sheet;
  vi. Bid Form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
  vii. Bill of Quantities;
  viii. General and Special Conditions of Contract;
  ix. Supplemental Bid Bulletins, if any; and
  x. Other contract documents that may be required by existing laws and/or the Entity.

- *For Procurement of Consulting Services*

  i. General and Special Conditions of Contract;
  ii. Terms of Reference;
  iii. Request for Expression of Interest;
  iv. Instructions to Bidders;
  v. Bid Data Sheet;
  vi. Addenda and/or Supplemental Bid Bulletins, if any;
  vii. Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents/ statements submitted (*e.g.*, bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
  viii. Eligibility requirements, documents and/or statements; and
  ix. Other contract documents that may be required by existing laws and/or the Entity.

b. Winning bidder's bid, including the Eligibility Requirements, Technical and Financial Proposals, and all other documents or statements submitted;

c. Performance Security;

d. Notice of Award of Contract; and the Bidder's Conforme thereto; and

e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBD, such as but not limited to the Notice to Proceed and Warranty Security.

3. In consideration of the Contract Price of *[Contract Price in words and figures],* or such other sums as may be determined in accordance with the terms of the Contract, the Supplier/Contractor/Consultant agrees to deliver and perform the items and related services for the *[Project Title]* described herein in accordance with the terms and conditions specified in the Contract and its annexed documents.

4. The *[Name of the Procuring Entity]* agrees to pay the above-mentioned sum to the

Supplier/Contractor/Consultant in accordance with the schedule and manner provided in the Bidding Documents and its annexes.

5. Any dispute, difference, or claim arising out of or relating to this Contract, including its existence, validity, interpretation, breach, or termination thereof, may be submitted to arbitration or other form of alternative dispute resolution in accordance with the applicable law, such as Republic Act No. 9285 (Alternative Dispute Resolution Act of 2004) or Executive Order No 1008, series 1985 (Construction Industry Arbitration Law).

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

*For the **Department of Energy***	For the Bidder
Head of the Procuring Entity or Duly Authorized Representative	Duly authorized to sign the Contract for and behalf of *[Bidders Name]*:
[Signature over Printed Name] *[Position/Designation]* *[Date]*	*[Signature over Printed Name]* *[Position/Designation]* *[Date]*

Signed in the presence of:

[Name and Signature] *Witness for DOE* *[Position Title]*	*[Name and Signature]* *Witness- Supplier* *[Position Title]*

Helen C. Roldan
OIC – Chief, Accounting Division
Witness

ACKNOWLEDGMENT

BEFORE ME, A Notary Public for and in the _____, City/Province of _____, this _____ day of _____, 20_____, personally appeared the above-named persons who have satisfactorily proven to me their identity, through their identifying documents written below their names and signatures, that they are the same persons who executed and voluntarily signed the foregoing instrument consisting of ____ pages, including this page where this Acknowledgement is written, which they acknowledged before me as their free and voluntary act and deed.

WITNESS MY HAND AND SEAL this ___ day of *[month] [year].*

NAME OF NOTARY PUBLIC
Notarial Commission No. _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. __, *[date issued], [place issued]*
IBP No. __, *[date issued], [place issued]*

Doc. No. _____
Page No. _____
Book No. _____
Series of _____