ANNEX B

Specifications

Supply and Delivery of Batteries for On-site Inspection Techniques

1 INTRODUCTION

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization with its headquarters in Vienna (hereinafter referred to as "the Commission") is the international organization mandated to establish the global verification system foreseen under the Comprehensive Nuclear-Test-Ban Treaty (CTBT), which is the Treaty banning any nuclear weapon test explosion or any other nuclear explosions. The Treaty provides for a global verification regime, including a network of 321 stations worldwide, a communication system, an International Data Centre and on-site inspections to monitor compliance with the Treaty.

An on-site inspection (OSI) is the final verification measure to verify States' compliance with the CTBT. The purpose of an OSI is to carry out an investigation to clarify whether a nuclear explosion has taken place in violation of Article I of the CTBT; and to the extent possible, to gather any facts which might assist in identifying any possible violator. To support such inspection activities, the Commission is seeking a Supplier to provide:

- Batteries for on-site inspection techniques

The following Specifications shall be used by the Supplier as the basis for provision of batteries for on-site inspection techniques.

2 PROVISION OF BATTERIES FOR ON-SITE INSPECTION TECHNIQUES

2.1 SCOPE

The Contractor shall supply batteries and related accessories for on-site inspection techniques meeting the below specifications.

2.2 SPECIFICATIONS

2.2.1 12 V AGM batteries (Lot 1)

The Commission requires ninety (95) 12 V AGM batteries.

The batteries shall meet the following minimum requirements:

The battery type is 12 V Absorbent Glass Mat (AGM).
The battery is NOT a starter battery.
The capacity is at least 60 Ah.
The weight is maximum 19 kg (*weight can be within 0.5 kg from the set maximum)*
The maximum dimensions are 30 (L) x 17 (W) x 20 (H) cm.
The battery has handles.

The battery has Auto Post Terminal (SAE terminal) connectors with clearly indicated positive and negative signs.
Removable quick-release terminal clamps (protector/connector clips) are included. Colours for positive and negative terminals: Red and blue OR red and black, respectively. The cable connector is adjustable.
The battery is compatible with solar panel charging.
Operational temperature range at least -20°C-50°C.
Material safety data sheet and documentation available to prove that the batteries conform to special provisions IATA/A67 and IMDG/238 classifying them as non-dangerous goods

2.2.2 12 V AGM starter batteries (Lot 2)

The Commission requires ten (10) 12 V AGM starter batteries.

The batteries shall meet the following minimum requirements:

The starter battery type is 12 V Absorbent Glass Mat (AGM).
The capacity is 70 Ah.
The weight is maximum 25 kg.
The battery has handles.
The battery has Auto Post Terminal (SAE terminal) connectors with clearly indicated positive and negative signs.
Removable quick-release terminal clamps (protector/connector clips) are included. Colours for positive and negative terminals: Red and blue OR red and black, respectively. The cable connector is adjustable.
Compatible with solar panel charging.
Operational temperature range at least -20°C-50°C.
Material safety data sheet and documentation available to prove that the batteries conform to special provisions IATA/A67 and IMDG/238 classifying them as non-dangerous goods.

2.2.3 12 V LiFePO4 batteries and chargers (Lot 3)

The Commission requires a total of thirty (30) 12 V LiFePO4 batteries and 2 charger systems for simultaneous charging of five (5) batteries each.

The batteries and chargers shall meet the following minimum requirements:

The battery type is 12 V lithium iron phosphate (LiFePO4).
The battery is NOT a starter battery.

The capacity is at least 70 Ah.
The weight is maximum 10 kg.
The maximum dimensions are 30 (L) x 17 (W) x 20 (H) cm.
The battery has handles.
The battery has Auto Post Terminal (SAE terminal) connectors with clearly indicated positive and negative signs.
Removable quick-release terminal clamps (protector/connector clips) are included. Colours for positive and negative terminals: Red and blue OR red and black, respectively. The cable connector is adjustable.
Compatible with solar panel charging.
Operational temperature range at least -20°C-50°C.
Material safety data sheet available and the batteries fulfil IATA and IMDG shipping regulations.
The offered package includes 2 charger systems for simultaneous charging of 5 of the offered LiFePO4 batteries each. This may be a charger system (i.e., one charger system is capable of charging 5 batteries at a time, and the two charger systems altogether 10) OR alternatively also separate chargers (i.e., individual chargers for charging all 10 batteries separately) are acceptable.

2.2.4 Workshop and field battery charger systems (Lot 4)

The Commission requires the provision of 8 (eight) battery charger systems.

Each of the 8 battery charger systems shall meet the following minimum requirements:

Charging voltage is 12V
Simultaneous charging of 5 or 6 batteries. (No separate, individual chargers allowed.)
The battery capacity range is at least [3 110] Ah
The battery types accepted are at least: Flooded/AGM/Gel/EFB/VRLA
Digital display of charge status (desirable – not mandatory)

2.2.5 Workshop and field battery testers

The Commission requires 2 (two) battery testers.

The battery testers shall meet the following minimum requirements:

Battery test at 12V
Charging test at 12V/24V

Cranking test at 12V/24V
The battery types accepted are at least: Flooded/AGM/Gel/EFB/VRLA
The battery capacity range is at least [3 110] Ah
The tester will display the battery status, the battery life, and the battery capacity.
Built-in printer for test report
Battery test at 6V (desirable – not mandatory)

3 OPTIONAL ITEMS

The Commission reserves the right, at its sole discretion, to request:

- up to 30 additional 12 V AGM batteries (item 2.2.1),
- up to 10 additional 12 V AGM starter batteries (item 2.2.2),
- up to 40 additional 12 V LiFePO4 batteries and up to 2 more charger systems for simultaneous charging of 5 LiFePO4 batteries each (item 2.2.3),
- up to 8 more workshop and field battery charger systems (item 2.2.4), and/or
- up to 2 more workshop and field battery testers (item 2.2.5)

within two (2) years following the date of the issuance of the purchase order for the initial items. If applicable, the Optional Items will be implemented through separate Purchase Orders issued by the Commission to the Contractor.

4 DELIVERABLES

The Contractor shall supply the batteries and accessories for on-site inspection techniques with the specifications set out in Sections **Error! Reference source not found.**.1-2.2.5 above.

Within 4 weeks from the date of the Purchase Order, or as agreed, all items requested shall be delivered DAP (Delivery At Place, Incoterms 2020), door-to-door to the CTBTO Technology Support and Training Centre, 2444 Seibersdorf, Austria (mark attention: Mrs Emilia KOIVISTO, CTBTO/OSI).