TERMS OF REFERENCE (REV. 7 JUNE 2012)

PROVISION AND DELIVERY OF BATTERIES AND RELATED ACCESSORIES FOR THE IMS STATIONS HA07, FLORES, PORTUGAL, IS18, GREENLAND, DENMARK, AND IS50, ASCENSION ISLAND, UNITED KINGDOM

1 BACKGROUND

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (hereinafter referred to as the "Commission") located in Vienna, Austria, is the international organization establishing the global verification system which bans any nuclear weapon test explosion or any other nuclear explosion. The Commission operates a global verification regime to monitor compliance with the Comprehensive Nuclear-Test-Ban Treaty (hereinafter referred to as "IMS Stations"). It provides timely data, assessments and other products and services to Signatory States of the Treaty.

2 REQUIREMENTS AND MINIMUM SPECIFICATIONS

The Commission requires the provision and delivery (including packing, handling, insurance, freight, shipping, custom clearance and local delivery) of complete sets of batteries and related accessories (both hereinafter referred to as the "Goods") for the following IMS stations and as per the minimum specifications/requirements specified herein below and in the most cost-effective manner possible:

HA07, Flores, Portugal (HA07)
IS18, Greenland, Denmark (IS18)
IS50, Ascension Island, United Kingdom (IS50)

3. MINIMUM SPECIFICATIONS

HA07

Three (3) banks of 12 volt 400 amp-hour deep cycle batteries are required for the solar application. The configuration shall be six (6) 2 volt 400 amp-hour cells connected in series per bank, for a total of 18 cells. All intermediate connections required for assembling the battery banks shall be included.

Required quantity: 18 batteries

Each battery cell shall meet the following minimum requirements:

Battery Type:	Industrial, deep cycle, sealed, maintenance free
Battery technology:	VRLA (Gel or AGM)
Nominal capacity:	about 400Ah
Nominal voltage	2V
Expected lifetime:	15 years in float service @ ambient temperature (20-25°C) (preferred 20 years)

Operating temperature:	-10 °C to +40 °C
Storage capability time:	Minimum 12 months at ambient temperature (20-25°C) Whereby 24 months storage capability would be preferred
Transport/packing:	Transportable in airplanes (for final installation)
Accessories:	Terminals and connectors for connecting cells in series into 12V battery bank.
Stand:	Support rack and all intermediate connections required for assembling
Documentation:	Certificate of conformity or Declaration of conformity, operational manual in the English language, registration document and warranty coupon
Other accessories:	Two automatic battery chargers designed for lead-acid batteries, with temperature compensation function, suitable for rapid (current of 0.1 of battery capacity), slow (current of 0.05 of the battery capacity) and constant float charging of the batteries up to (1.3 x battery capacity) and input voltage: 240 / 110 VAC are required.

IS18

Nine (9) banks of 12 volt 300 amp-hour deep cycle batteries are required for the stand-by (AC charged) application. The configuration shall be six (6) 2 volt 300 amp-hour cells connected in series per bank, for a total of 54 cells. All intermediate connections required for assembling the battery banks shall be included.

Required quantity: 54 batteries

Each battery shall meet the following minimum specifications:

Battery Type:	Industrial, deep cycle, sealed, maintenance free
Battery technology:	VRLA (Gel or AGM)
Nominal capacity:	about 300Ah
Nominal voltage	2V
Expected lifetime:	15 years in float service @ ambient temperature (20-25°C) (preferred 20 years)
Operating temperature:	-10 °C to +40 °C
Transport/packing:	Transportable in airplanes (for final installation)
Accessories:	Terminals and connectors for connecting cells in series into 12V battery bank.
Stand:	Support rack and all intermediate connections required for assembling
Documentation:	Certificate of conformity or Declaration of conformity, operational manual in the English language, registration document and warranty coupon
Other accessories:	One automatic battery charger designed for lead-acid batteries, with temperature compensation function suitable for rapid (current of 0.1 of battery capacity), slow (current of 0.05 of the battery capacity) and constant float charging of the batteries up

	to (1.3 x battery capacity) and input voltage: 240 / 110 VAC is required

IS50

Eighteen (18) banks of 12 volt 200 amp-hour deep cycle batteries are required for the solar application. The configuration shall be six (6) 2 volt 200 amp-hour cells connected in series per bank, for a total of 108 cells. All intermediate connections required for assembling the battery banks shall be included.

Required quantity: 108 batteries

Each battery shall meet the following minimum specifications:

Battery Type:	Industrial, deep cycle, sealed, maintenance free
Battery technology:	VRLA (Gel or AGM)
Nominal capacity:	about 200Ah
Nominal voltage	2V
Expected lifetime:	15 years in float service @ ambient temperature (20-25°C) (preferred 20 years)
Operating temperature:	-10 °C to +40 °C
Transport/packing:	Transportable in airplanes (for final installation)
Accessories:	Terminals and connectors for connecting cells in series into 12V battery bank.
Stand:	Support rack and all intermediate connections required for assembling
Documentation:	Certificate of conformity or Declaration of conformity, operational manual in English, registration document and warranty coupon
Other accessories:	One automatic battery charger designed for lead-acid batteries, with temperature compensation function, suitable for rapid (current of 0.1 of battery capacity), slow (current of 0.05 of the battery capacity) and constant float charging of the batteries up to (1.3 x battery capacity) and input voltage: 240 / 110 VAC is required
Additional UPS batteries:	Twelve (12) FULLRIVER HL100-12B/Gel - 12V 100AH (20HR) cells are required for UPS installation. This exact model is required for compatibility with the equipment currently installed on-site.

4 DELIVERY

4.1 Delivery addresses, consignees and other delivery details

The Goods shall be delivered at no cost to the recipient as follows:

HA07

Delivery date: As soon as possible preferably by no later than **15 September 2012**.

Delivery party and consignee:
Two banks of batteries and one automatic battery charger shall be delivered to:

Instituto de Meteorologia
Att: Mr. Manuel Rita
Corvo Island / Ilha do Corvo
9980-034 Corvo
Azores
Portugal
E-mail: corvoazores@yahoo.com
Tel.: +351 917 763 060

One bank of batteries and one automatic battery charger shall be delivered to:

Flores Island
Instituto de Meteorologia
Attn. Mr. Joao Orlando Rodrigues Soares
Farol das Lajes
9960-438 Lajes das Flores
Azores
Portugal
E-mail: joaoorlandosoares@gmail.com
Tel.: +351 917 710 655

Notification Parties:
Ms. Svetlana Nikolova, svetlana.nikolova@ctbto.org, fax: +4326305890; and
Mr. Guilherme Madureira, guilherme.madureira@meteo.pt, fax +35 128 3958358

IS18

Delivery date: as soon as possible preferably by no later than **6 September 2012**.

Delivery party and consignee:
Geophysical Observatory
Attn. Mr. Svend Erik Ascanius
P.O. Box 91
3971 Qaanaaq
Greenland
E-mail: geobsthl@greennet.gl
Tel.: +299-971 027

(If applicable) Freight forwarder for shipment by sea from Aalborg, Denmark to Qaanaaq, Greenland, Denmark:

Royal Arctic Line A/S
Head office
Aqqusinersuaq 52
Postboks 1580
3900 Nuuk
Grønland
Phone +299 34 91 00
Telefax +299 32 24 50
kundeservice@ral.gl
http://www.ral.dk

Notification Parties:
Ms. Svetlana Nikolova, svetlana.nikolova@ctbto.org, fax: +4326305890; and
Mr. Niels Larsen, nl@dmi.dk, Danish Meteorological Institute

IS50

Delivery date: as soon as possible preferably no later than by **15 September 2012**.

Delivery party and consignee:
Cable and Wireless South Atlantic Limited
Ascension Island South Atlantic Ocean ASCN IZZ
Attn. Mr. Geoffrey Augustus
E-mail: geoffrey.augustus@cwasc.co.ac
Tel.: +247 6559

(If applicable) Freight forwarder for shipment from the United Kingdom to Ascension Island:
Richard James International Ltd
Worthy Road,
Chittening Industrial Estate,
Avonmouth,
Bristol, BS11 0YB
Keith Jones
Operations Director
Telephone No: +44 (0) 117 982 8575
Fax No: +44 (0) 117 982 6361
E-mail: keith@richard-james.co.uk

Notification Parties:
Ms. Svetlana Nikolova, svetlana.nikolova@ctbto.org, fax: +4326305890 and

4.2 Other delivery requirements

The Supplier shall be responsible for the transportation, safety and storage of the Goods and shall be liable for any damage to it until final delivery. In the event of loss or damage during shipment, transportation, or storage prior to delivery, the Supplier shall promptly replace or repair, at its own expense, such Goods by whatever means of transport or personnel services are most suitable and reasonable in the circumstance.

5. COMPLETION

Completion shall be marked by the acceptance by the Commission of the Supplier's Delivery Certificate, counter-signed by the Consignee/End-User, confirming the successful delivery of the Goods by the Consignee/End-User.