

STATEMENT OF WORK

Central UPS Maintenance

CDC-EPHI Office

Background

CDC-Ethiopia has purchased and installed two Central UPSes at its collaborative office located at Ethiopian Public Health Institute (EPHI) compound. The intent of this SOW is to provide Scheduled and on call basis Preventive Maintenance service for two Central UPSes serving CDC EPHI office building.

Scope of Work

The contractor shall provide preventive maintenance for the two central UPSes listed below. The contractor shall also provide technical advices and recommendations on the devices.

1. APC Smart UPS with Model # SUVT30KH4B4S and Serial number PS0941141077;
2. LEGRAND ESISPOWER Smart UPS with Model # ATLAS 5060 and Serial # 1938004;

Specific tasks

The Contractor shall perform the following maintenance services.

1. The Vendor shall provide immediate maintenance services during CDC-Ethiopia non-business hours.
2. The vendor shall perform the following activities, but not limited during maintenance:
 - Diagnose problem if any related to the Central UPSes;
 - Inspect appearance and cleanliness of battery. Clean normal cell top;
 - Measure and record the total battery float voltage and charging current;
 - Measure and record the overall AC ripple voltage;
 - Measure and record the overall AC ripple current;
 - Visual inspection of jars and covers for cracks and leakage;
 - Visual inspection for evidence of corrosion;
 - Measure and record ambient temperature;
 - Verify battery cabinet integrity;
 - Measure and record 100% of cell temperatures;

- Measure and record float voltages of all cells;
- Measure and record all internal impedance readings;
- Provide a detailed written report noting any deficiencies and corrective action need, taken or planned;
- Verify approval for Battery Life program;
- Temperature check on all breakers, connections and associated controls. Repair and report all high temperature areas;
- Perform visual inspection of all equipment including subassemblies, wiring harnesses, contacts and major components;
- Check Air filters;
- Check Module(s) completely;
- Check the inverter and rectifier snubbers for burned or broken wires;
- Check all nuts, bolts, screws, and connectors for tightness and heat discoloration make changes as necessary;
- Check fuses on the DC capacitor deck for continuity;
- Install or perform engineering field change notices as necessary;
- Measure and record all low-voltage power supply levels;
- Clean any foreign material and dust from internal components;
- Perform status check on all alarm circuits;
- Calibration of all equipment to manufacturer specifications;
- Measure and record phase-to-phase input voltage and currents;
- Return unit to operational service with normal load then measure and verify display indications;
- Re-tighten all battery connection to battery manufacturers specifications;
- Measure and record all battery connection resistances in micro-ohms when applicable;

Service price

Maintenance service	Maintenance Frequency	Number of Central UPS/es	Unit price	Total price
Scheduled Preventive Maintenance service for Two Central UPSes : 1. APC Smart UPS with Model # SUVT30KH4B4S and Serial number PS0941141077; 2. LEGRAND ESISPOWER Model # ATLAS 5060 and Serial # 1938004)	Three time in a year	2		
On call basis maintenance for the Two Central UPSes 1. APC Smart UPS with Model # SUVT30KH4B4S and Serial number PS0941141077; 2. LEGRAND ESISPOWER Model # ATLAS 5060 and Serial # 1938004;	As required	2		

WORK SCHEDULE

Maintenance work shall be performed during CDC-Ethiopia non-business hours.

Period of performance

The vendor can start performing the task after the date of the contract is signed.

Deliverables

1. Advices and recommendation on each device future use, equipment replacement.
2. Maintenance report after the job is done.