

**SPECIFICATIONS FOR MATERIALS REQUIRED FOR THE TERMINAL PHASE OUT
MANAGEMENT PLAN OF TOGO**

1. Introduction

- 1.1. The United Nations Development Programme (UNDP) has been given the mandate to assist Togo in the implementation of the investment component of its Terminal Phase-Out Management Plan for CFCs. The activity consists in the strengthening and equipping a Centre of Excellence, which will operate as a demonstration centre for refrigeration conversion technologies (including MACs).
- 1.2. The specifications for the transport and distribution of the equipment to Togo are not indicated in the document. However, tenders must offer the specified material and must include transport and distribution to a storage depot in Togo. The details and location of the depot will be provided upon the signing of the contract with the supplier.
- 1.3. The materials supplied will be adapted for the tropics and will be compatible with the voltage and climate of the country. The tender offer must provide confirmation of this. Electric current in Togo is 220 volts (single phase)/50 hertz with variations in voltage and frequency. The proper electrical plugs (standard for France) must be supplied with the equipment. Matching plugs can be obtained locally.
- 1.4. The climate in Togo is tropical with one rainy season and one dry season in the South and two rainy seasons in the North. Daytime temperatures can reach 37 degrees centigrade with very high relative humidity levels.
- 1.5. The supplier must also have a representative in the country or at a minimum a regional representative to provide after sales service and ensure the availability of spare parts after the warranty period expires.

2. Specific information

- 2.1. These specifications are the minimum requirements for the equipment. Equipment provided in accordance with these specifications must at least meet or exceed the requirements stated in this document. Modifications or additions to standard or basic products with a lesser capacity or intended for a different use shall not satisfy the requirements set forth in this document and will therefore not be acceptable.
- 2.2. The quality of the products shall conform to accepted industry standards. The supplier shall provide the material specified in this document and must clearly describe how each item to be delivered conforms to industry standards.
- 2.3. The annual operation of each unit shall be based on a minimum of two hundred and sixty (260) working days per year and eight (8) hours of operation per day.
- 2.4. The equipment shall conform to internationally accepted standards (United States and European standards, for example).
- 2.5. Specifications may include special requirements offered by the manufacturers. However, the technical specifications presented here cannot be changed to accommodate the product of a particular manufacturer or of a specific model.

3. General information

- 3.1. Please note in the corresponding column of the table below the items being offered in your tender;
- 3.2. Tenders shall provide for the material specified in this document and shall include a detailed description of the items as well as their quantity and price;
- 3.3. The items tendered shall meet or exceed the specifications described above. Should you be in a position to offer a more recently manufactured or higher performing product than the one described here, for a comparable price, the offer may be made in Section 7 – Derogations;
- 3.4. Each lot of equipment shall include the items that are used and/or consumed in such quantities as are deemed necessary for the first year of operation of each unit. A manual for the spare parts shall also be provided and shall be in French;
- 3.5. Depending on the funds available, the quantities required may be increased or reduced without requiring a new tender. Where there are significant changes in the quantities ordered, UNDP and the National Ozone Office (NOO) shall attempt to negotiate the prices and delivery deadlines with the supplier to reflect these changes.

4. Standards

- 4.1. Copies of certificates of standards indicating the industrial quality, safety, performance or capacity of the material in the offer shall be attached to the tenders.

5. Warranty

- 5.1. The material supplied shall be guaranteed for a minimum period of two years.
- 5.2. The warranty and all related conditions for all equipment supplied by the supplier shall be attached to the tender.

6. Description of the equipment and specifications

- 6.1. The equipment in question is refrigeration recovery and identification equipment, as well as spare parts, some of which are to be used to locally assemble recovery systems and, the refrigerant fluids, as described below.

Documents should be sent to the following E-mail address: procurement.tg@undp.org

Copy to patrice.awesso@undp.org

And include Reference: **ITB/008/2009-Phase Terminale Etude OZONE Togo.**

Note: All derogations should be detailed below or, if necessary, on another sheet of paper. These documents should be attached to the description of work and price list.

