**Technical Specification**

The new air conditioning unit shall meet the latest standards introduced in the European Union and shall be absolutely safe for human beings and the environment.

The technical proposal of the tenderers in the tender shall conform to the parameters of the existing water cooling, heat pump space heater and the existing installation in the building. The facility shall be installed on the roof of the Embassy of the Republic of Bulgaria in Athens (a three-storey building with built-up area of 643 m2, total floor area of 1,454 m2 ) using a crane with proper length of the jib, and the old chiller shall be deinstalled and removed from the site to specifically designated places.

**I. The minimum basic, technical details of the new air conditioning unit shall be:**

|  |  |
| --- | --- |
| * Cooling power | – not less than 280 kW |
| * EER – Energy efficiency ratio in cooling mode | – up to 3 Κw |
| * Compressor | – min 2 per circle |
| * Cooling fluid | – water; |
| * Power supply | – 380 V/50 Hz; |
| * Evaporator | – jacketed piping |
| * Type of manufacture | – Mediterranean |
| * Compressor performance | – up to +50 degrees |
| * Noise level * Of ventilators * Of compressor | – up to 59 dB –up to 92 dB |

1. **For the full performance of the procurement subject the following shall be carried out:**
2. Visual examination on the spot of the building, the roof, and the existing chiller;
3. Supply of the facility to the place of installation;
4. Installation of the facility – the tenderer shall describe in the technical proposal the method of installation of the facility offered thereby and deinstallation of the old facility;
5. Connection of the new chiller to the existing power supply and the air-conditioning, piping system;
6. Commissioning and 72-hour test period;
7. Repair of the air conditioning heating and cooling system in the embassy, which shall cover:

* Building and installation of thermostats for autonomous temperature control in the premises on the first floor;
* Replacement of 25 convectors on the second floor with the following characteristics:
* Maximum cooling/heating degree: not less than 6 kW;
* visible installation to a dual piping system;
* 3-speed modulation of the power and adjustability;
* Maximum noise level: not exceeding 60 dB.

1. Cleaning of the existing exhaust vents;
2. Warranty, warranty and post-warranty maintenance:

* The warranty maintenance of the facility for a period offered by the tenderer shall be not less than 24 months from the signature of a record of a completed test in operational conditions;
* Response time during the warranty period: from 4 to 6 hours;
* Time to remove a failure during the warranty period: from 24 to 48 hours;
* Within the warranty maintenance period, the contractor shall make preparations in May for a summer mode of operation and shall winterize the facility in October;
* The warranty period shall start on the date of signing of the record for a completed 72-hour test in operational conditions. Within the warranty maintenance period, the contractor shall make regular technical and prevention checks, which shall also include activities for the components of the facility;
* Replacement of failed parts in the warranty period shall be at the expense of the contractor.
* Ability of the company for post-warranty maintenance and prevention.