

**Amendment No. 1**

**TO REQUEST FOR QUOTATION**

Date: April 26, 2021
Regarding: RFQ/023/19 Supply and Installation of Cooling complex to Karakalpakstan

This Amendment is submitted to RFQ/023/21 announced on April 11, 2021, for the “Supply and Installation of Cooling complex to Karakalpakstan.” Changes are as follows:

1. Annex No. 1 LIST OF REQUIREMENTS (namely **Detailed Specifications of Goods and Services**) is revised and to be read as defined in the Annex No. 1 below, which is an integral part of this Amendment No. 1.
2. The “Deadline for the Submission of Quotation” is revised and prolonged to **06 May 2021, prior to 18:00** (GMT +5) Tashkent time.

All Amendments to the RFQ/023/21 are an integral part of it, and all participants must comply with the requirements stipulated by such additions. Any deviation from the claims made by amendments to this RFQ may result in consideration of the proposal as not meeting the requirements and withdrawing from further evaluation.

All other terms and conditions of the RFQ/023/21 remain unchanged.

## ANNEX 1: LIST OF REQUIREMENTS

### Technical Specifications for Goods and Services:

No.	Minimum technical requirements	UOM	Quantity
1	Cooling complex of total capacity 100 tons/each for cooling and storage of fruits and vegetables, consisting of 2 consecutive chambers for 50 tons each (according to the Specifications)	SET	3

### Detailed Specifications of Goods and Services:

#### Designation

Cooling complex of total capacity 100 tons/each for cooling and storage of fruits and vegetables, consisting of 2 consecutive chambers for 50 tons each: in the temperature range -5 +5 °C

Stored weight: 50 tons for each chamber;

Products inlet temperature: +2 °C;

Products outlet temperature: +2 °C;

Humidity: 75% to 90%.

Approximate dimensions: length 10,56m; width 11,72m, height (internal side of premise) 4,2m;

Size of a chamber: length 10,56m; width 5,86m; height (internal side of premise) 4,2m (2 chambers).

Refrigeration units Bitzer or equivalent. Type – semi-hermetic. Placement of units near the complex; provide fencing for refrigeration unit.

Requirements for evaporators:

1. Insulated condensate collection tray;
2. Electric drain pipe heater;
3. Electric defrosting.

#### WALL AND CEILING INSULATING STRUCTURE (approximate):

- Sandwich panels (complete with mounting profile) with polyurethane foam base (PUF), refrigerated, with a polyurethane foam filler of 41-43kg/m<sup>3</sup> (length from 2000mm to 11000mm, working width 960mm, panel thickness 100mm, metal thickness 0.4mm-0.7mm) – 400m<sup>2</sup>;

- Thermal doors retractable for refrigerating chambers 2400mm x 1600mm, thickness 100mm polyurethane, with a set of rail accessories – 2pcs;

- Floor polystyrene 100mm thick, Polystyrene foam polystyrene foam, 18-25 kg/m<sup>3</sup> (with a length of 2000mm to 4000mm, a width of 1000mm, a panel thickness of 100mm) – 124m<sup>2</sup>;

- LED lamps (in each chamber) of warm light with protective shades, excluding glass fragments falling on the product if damaged. Luminaires should be installed not lower than mark. + 5,000 from floor level – set;

- Additional elements for sandwich panels: external and internal simple angles, profile (angle bar) under the sandwich panel, as well as other necessary elements for the construction of sandwich panels and rooms and doors – set.

#### COOLING SYSTEM:

Complete cooling system set based on R404A, R407c, R134a or any other ozone friendly refrigerant – 2 sets:

- Cooling temperature: up to -5 °C;

- Compressor-condenser, semi-hermetic, Bitzer or equivalent, with oil separator, mirror for monitoring the state of the refrigerant in the system;

- Evaporator (air cooler), the difference, (Delta) temperature in the heat exchanger and the air in the chamber is not more than 6 °C;

- A full package of fittings, TRV and copper pipelines, combining hardware and cooler;

- Electronic control unit;

- The kit should have electrical wiring and refrigerant in sufficient quantity to operate the system.

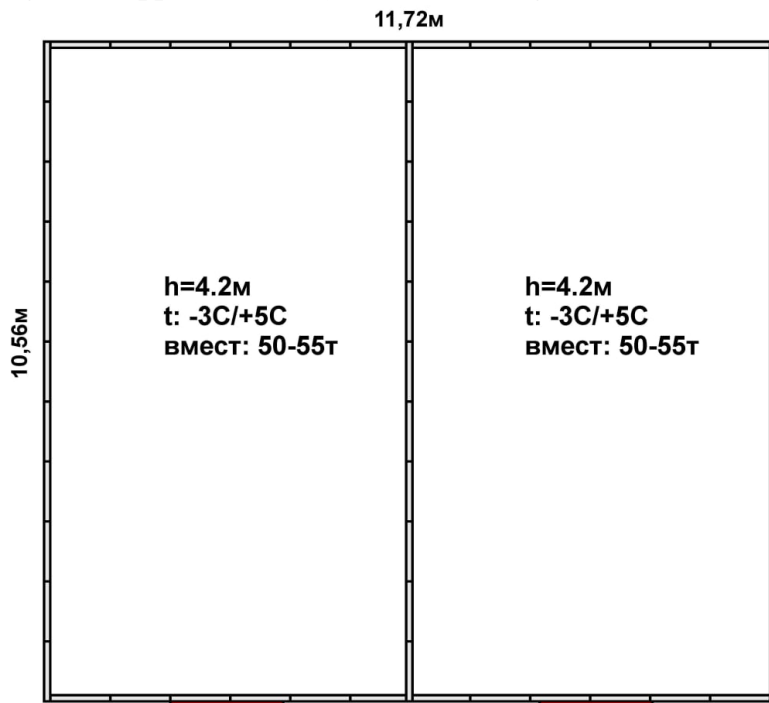
#### CERTIFICATION AND STANDARDS:

- The offered cooling system must be from the manufacturer adhering to ISO 9001 quality system (internationally recognized quality certification systems equivalent to ISO will also be considered).

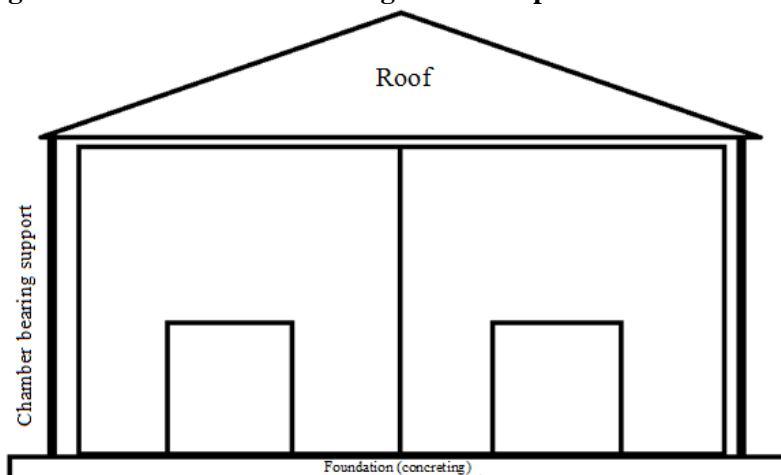
**DELIVERY, INSTALLATION, COMMISSIONING AND TRAINING:**

- Delivery and installation in three districts of Karakalpakstan: Karauzyak, Chimbay and Bozataw; adjustment, starting up and commissioning of the cooling chambers by the Supplier's qualified staff and training of the End-user personnel.

**Figure 1. Approximate Layout of the Refrigeration Chambers:**



**Figure 2. Front view of the refrigerator compartment:**



***\*Work on concreting, installation of the bearing support and roof of the refrigerating chamber, taking into account all building materials, is covered by the beneficiary / end user!***

**Additionally, kindly provide the following information:**

1. Wall sandwich panels assembly diagram;
2. Ceiling panels assembly diagram;
3. Doors layout diagram with dimensions;
4. Copy of technical certificate of offered Sandwich panels;
5. Copy of technical certificate of offered Cooling System.