



REQUEST FOR QUOTATION (RFQ)

RFQ-2021-005: Modernization of Heating and Hot water Supply (HWS) systems of apartment buildings at the addresses: Nur-Sultan, Zhubanov street, buildings No. 3 and 3/1	Date: April 07, 2021
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SECTION 1: REQUEST FOR QUOTATION (RFQ)

UNDP kindly requests your quotation for the provision of goods, works and/or services as detailed in Annex 1 of this RFQ.

This Request for Quotation comprises the following documents:

Section 1: This request letter

Section 2: RFQ Instructions and Data

Annex 1: Terms of Reference

Annex 2: Quotation Submission Form

Annex 3: Technical and Financial Offer - Works

When preparing your quotation, please be guided by the RFQ Instructions and Data. Please note that quotations must be submitted using Annex 2 «Quotation Submission Form» and Annex 3 «Technical and Financial Offer» by the method and by the date and time indicated in Section 2. It is your responsibility to ensure that your quotation is submitted on or before the deadline. Quotations received after the submission deadline, for whatever reason, will not be considered for evaluation.

Thank you and we look forward to receiving your quotations.

Issued by:

Signature: Ali Saeed

Name: Ali Saeed

Title: Procurement Coordinator

Date: April 07, 2021

Signature: Vitalie Vremis

Name: Vitalie Vremis

Title: UNDP Deputy Resident Representative

Date: April 07, 2021

SECTION 2: RFQ INSTRUCTIONS AND DATA

Introduction	<p>Bidders shall adhere to all the requirements of this RFQ, including any amendments made in writing by UNDP. This RFQ is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement</p> <p>Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this RFQ.</p> <p>UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p>
Deadline for the Submission of Quotation	<p>May 07, 2021, 16.00 pm (Nur-Sultan local time)</p> <p>If any doubt exists as to the time zone in which the quotation should be submitted, refer to http://www.timeanddate.com/worldclock/.</p>
Site-visit	<p>For preparation and submission of an offer a Bidder shall conduct a Site Survey (without cost to UNDP). The data collected on the site assessment visit, together with the data included in this document shall be considered for the offer preparation and submission.</p> <p>Site Assessment Visit is scheduled on 13 April 2021 (15.00-16.00 pm Nur-Sultan local time). Conducting a site visit is not mandatory, but strongly recommended.</p> <p>The UNDP focal contact in Kazakhstan is a project manager. Please note that it is necessary to arrange the site visit in advance. As such, please send your email notification to the email: zulfiya.suleimenova@undp.org</p>
Pre-Bid conference	<p>14 April 2021 (16.00 pm Nur-Sultan local time)</p> <p>Venue: ZOOM platform</p> <p>If interested, please send your email notification in advance to the email: zulfiya.suleimenova@undp.org</p>
Duration of work	2.5 months after signing the contract or issuance a purchase order
Method of Submission	<p>Quotations must be submitted as follows:</p> <p><input checked="" type="checkbox"/> Dedicated Email Address</p> <p>Bid submission address: procurement.kz@undp.org</p> <ul style="list-style-type: none"> ▪ File Format: PDF ▪ File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard. ▪ All files must be free of viruses and not corrupted. ▪ Max. File Size per transmission: 25 mb ▪ Mandatory subject of email: RFQ-2021-005 “MODERNIZATION OF HEATING AND HOT WATER SUPPLY (HWS) SYSTEMS OF APARTMENT BUILDINGS AT THE ADDRESSES: NUR-SULTAN, ZHUBANOV STREET, BUILDINGS NO. 3 AND 3/1” ▪ Multiple emails must be clearly identified by indicating in the subject line “email no. X of Y”, and the final “email no. Y of Y”. ▪ It is recommended that the entire Quotation be consolidated into as few attachments as possible.
Cost of preparation of quotation	UNDP shall not be responsible for any costs associated with a Supplier’s preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process.
Supplier Code of Conduct, Fraud, Corruption,	<p>All prospective suppliers must read the United Nations Supplier Code of Conduct and acknowledge that it provides the minimum standards expected of suppliers to the UN. The Code of Conduct, which includes principles on labour, human rights, environment and ethical conduct may be found at: https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct</p> <p>Moreover, UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors to observe the highest standard of ethics during the</p>

	procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti
Gifts and Hospitality	Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches, dinners or similar. In pursuance of this policy, UNDP: (a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question; (b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.
Conflict of Interest	<p>UNDP requires every prospective Supplier to avoid and prevent conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RFQ. Bidders shall strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified.</p> <p>Bidders must disclose in their Bid their knowledge of the following: a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this RFQ.</p> <p>The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this RFQ, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
General Conditions of Contract	<p>Any Purchase Order or contract that will be issued as a result of this RFQ shall be subject to the General Conditions of Contract</p> <p>Select the applicable GTC:</p> <p><input checked="" type="checkbox"/> General Terms and Conditions for Works</p> <p>Applicable Terms and Conditions and other provisions are available at UNDP/How-we-buy</p>
Special Conditions of Contract	<p><input checked="" type="checkbox"/> Cancellation of PO/Contract if the delivery/completion is delayed by 30 calendar days.</p> <p><input checked="" type="checkbox"/> At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions</p> <p><input checked="" type="checkbox"/> Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract. Percentage of contract price per calendar day of delay: 0.1% per calendar day up to Max. percentage of 10%, after which UNDP may terminate the contract.</p>
Eligibility	<p>A vendor who will be engaged by UNDP may not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by these organizations. Failure to do so may result in termination of any contract or PO subsequently issued to the vendor by UNDP.</p> <p>It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p> <p>Bidders must have the legal capacity to enter a binding contract with UNDP and to deliver in the country, or through an authorized representative.</p>
Currency of Quotation	Quotations shall be quoted in KZT
Joint Venture, Consortium or Association	If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV,

	<p>Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture, Consortium or Association.</p> <p>Refer to Clauses 19 – 24 under Solicitation policy for details on the applicable provisions on Joint Ventures, Consortium or Association.</p>
Only one Bid	<p>The Bidder (including the Lead Entity on behalf of the individual members of any Joint Venture, Consortium or Association) shall submit only one Bid, either in its own name or, if a joint venture, Consortium or Association, as the lead entity of such Joint Venture, Consortium or Association. Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or b) they have the same legal representative for purposes of this RFQ; or c) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of, another Bidder regarding this RFQ process; d) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or e) some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this RFQ process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.
Duties and taxes	<p>Article II, Section 7, of the Convention on the Privileges and Immunities provides, inter alia, that the United Nations, including UNDP as a subsidiary organ of the General Assembly of the United Nations, is exempt from all direct taxes, except charges for public utility services, and is exempt from customs restrictions, duties, and charges of a similar nature in respect of articles imported or exported for its official use. All quotations shall be submitted net of any direct taxes and any other taxes and duties, unless otherwise specified below:</p> <p>All prices must:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> be inclusive of VAT and other applicable indirect taxes.
Language of quotation	<p>Russian Language</p> <p>Including documentation including catalogues, instructions and operating manuals.</p>
Documents to be submitted for Qualification Assessment,	<p>Bidders shall include the following documents in their quotation:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Annex 2: Quotation Submission Form duly completed and signed <input checked="" type="checkbox"/> Annex 3: Technical and Financial Offer duly completed and signed and in accordance with the Schedule of Requirements in Annex 1. (The Bill of Quantities (BoQ) should also be submitted as signed and stamp. <input checked="" type="checkbox"/> Statement that bidder is not listed in the removed or suspended vendor list of the UN or other such lists of other UN agencies, nor are associated with, any company or individual appearing on the 1267/1989 list of the UN Security Council; <input checked="" type="checkbox"/> Company Profile indicating at least 5 years' experience in the market of repair and construction works for the installation of automated heating points, engineering systems and intra-house networks - (description of the company's activities, experience with an indication of the list of previously supplied / sold goods (including the period and cost of work) <input checked="" type="checkbox"/> Certificate of Registration of the business, including Articles of Incorporation, Charter and other legal documents; <input checked="" type="checkbox"/> Latest Audited Financial Statements (Income Statement and Balance Sheet) including Auditor's Report for the past two years (2018-19 and 2019-20); <input checked="" type="checkbox"/> Certificates confirming the absence of debts in tax authorities and serviced banks, balance sheets for 2019-2020. (Quick Ratio (QR) should be not less than 1.0. If QR is less than 1, UNDP shall verify financial capacity of the bidder and has the right to seek references from concerned parties & banks on the bidder's financial standing. <input checked="" type="checkbox"/> Statement of Satisfactory Performance from the Top 3 – Clients in the past 5 years (3 contracts/Purchase Orders (of Value USD 75,000 each) for provision of similar services; <input checked="" type="checkbox"/> Statement that all building materials and products planning to be used are certified in the Republic of Kazakhstan; <input checked="" type="checkbox"/> A confirmation letter on provision of a warranty period for the equipment and materials used (at least 1 year) and for the quality of installation work (at least 1 year);

	<input checked="" type="checkbox"/> A confirmation letter on availability of a service center in Nur-Sultan; <input checked="" type="checkbox"/> Schedule for the purchase, supply, storage of materials, equipment and installation work; <input checked="" type="checkbox"/> Confirmation if Bidder is a VAT payer or not; <input checked="" type="checkbox"/> Availability of a license of at least Category III for Installation of engineering networks and systems, including overhaul and reconstruction, including networks of cold and hot water supply, heat supply, centralized sewerage of household, industrial and surface-water drains, devices of internal water supply systems, heating and sewerage; <input checked="" type="checkbox"/> Confirmation that due to the COVID-19 pandemic, the Supplier undertakes to provide all necessary means of protection for their staff and comply with all norms and recommendations of WHO and local authorities for performing work during a pandemic. The service provider is responsible for the proper and timely provision of their employees engaged in this Terms of Reference with all necessary personal protective equipment in accordance with the current WHO recommendations (masks, gloves, sanitizers, passing the COVID-19 test (if necessary) for the entire duration of the assignment. <input checked="" type="checkbox"/> Confirmation of the availability of a working group supervised by qualified personnel: supervisor and chief engineer. Provision of CVs, Diplomas and Certificates is required only for: <ul style="list-style-type: none"> • Supervisor (leader): higher technical and / or economic education; minimum 5 years' work experience in the construction area. • Chief Engineer: higher technical education; minimum 5 years' work experience in the construction area; the following experience is required: carrying out dismantling / installation work of a heating unit, installation of balancing valves on vertical risers of the heating system, carrying out work on setting up balancing and thermostatic valves, and carrying out commissioning. 				
Quotation validity period	Quotations shall remain valid for 90 calendar days from the deadline for the Submission of Quotation.				
Price variation	No price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted at any time during the validity of the quotation after the quotation has been received.				
Partial Quotes	<input checked="" type="checkbox"/> Not permitted				
Alternative Quotes	<input checked="" type="checkbox"/> Not permitted				
Payment Terms	No	RESULTS	EXPECTED DATES	Paym ent	
	1	Clarification of the schedule for the purchase, delivery, storage of building material and production of work (CMP). Form of completion: an agreed schedule for the supply of equipment and work.	2 weeks after signing the contract	15%	
	2	Modernization of the heating and hot water supply system of the multiapartment residential building at St. Zhubanov No.3: 1. Dismantling of the old Heating Point 2. Installation of Automated Heating Point 3. Replacement of distribution pipelines for hot water supply, cold water supply and heating Form of completion: <ul style="list-style-type: none"> • Interim technical report • Receipts for construction materials; • Act of completed works approved by UNDP; • Act of acceptance of completed works approved by UNDP 	1 month after signing the contract	30%	
	3	Modernization of the heating and hot water supply system of the multiapartment residential building at St. Zhubanov No. 3/1: 1. Dismantling of the old Heating Point 2. Installation of Automated Heating Point 3. Replacement of distribution pipelines for hot water supply, cold water supply and heating Form of completion:	2 months after signing the contract	30%	

		<ul style="list-style-type: none"> Interim technical report Receipts for construction materials; Act of completed works approved by UNDP; Act of acceptance of completed works approved by UNDP 			
	4	Launch and commissioning of the systems, delivery of objects, final report.	2.5 months after the start of the heating season	25%	
Conditions for Release of Payment	<input checked="" type="checkbox"/> Passing Inspection <input checked="" type="checkbox"/> Written Acceptance of Goods, Services and Works, based on full compliance with RFQ requirements				
Contact Person for correspondence, notifications and clarifications	E-mail address: zulfiya.suleimenova@undp.org Attention: Quotations shall not be submitted to this address but to the address for quotation submission above. Otherwise, offer shall be disqualified. Any delay in UNDP's response shall be not used as a reason for extending the deadline for submission, unless UNDP determines that such an extension is necessary and communicates a new deadline to the Proposers.				
Clarifications	Requests for clarification from bidders will not be accepted any later than 3 days before the submission deadline.				
Evaluation method	<input checked="" type="checkbox"/> The Contract or Purchase Order will be awarded to the lowest price substantially/technically compliant offer UNDP will conduct the evaluation solely on the basis of the Bids received. Evaluation of Bids shall be undertaken in the following steps: <ol style="list-style-type: none"> Preliminary Examination including Eligibility and Qualification Evaluation of Technical Bids Evaluation of prices UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.				
Evaluation criteria	<input checked="" type="checkbox"/> Full compliance with all requirements as specified in Annex 1 <input checked="" type="checkbox"/> Full acceptance of the General Conditions of Contract				
Right not to accept any quotation	UNDP is not bound to accept any quotation, nor award a contract or Purchase Order				
Right to vary requirement at time of award	At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.				
Type of Contract to be awarded	<input checked="" type="checkbox"/> Contract for Works (GT&C)				
Expected date for contract award.	The work can be started after completion of heating season and depends on weather conditions, approximately May 2021.				
Publication of Contract Award	UNDP will publish the contract awards valued at USD 100,000 and more on the websites of the CO and the corporate UNDP Web site.				
Policies and procedures	This RFQ is conducted in accordance with UNDP Programme and Operations Policies and Procedures				
UNGM registration	Any Contract resulting from this RFQ exercise will be subject to the supplier being registered at the appropriate level on the United Nations Global Marketplace (UNGM) website at www.ungm.org . The Bidder may still submit a quotation even if not registered with the UNGM, however, if the Bidder is selected for Contract award, the Bidder must register on the UNGM prior to contract signature.				

ANNEX 1:**TERMS OF REFERENCE****For the Modernization of Heating and Hot water supply (HWS) systems of apartment buildings at the addresses: Nur-Sultan, Zhubanov street, buildings No. 3 and 3/1**

PROJECT: UNDP-GEF Project "Sustainable Cities for Low Carbon Development", 00091328

LOCATION: Nur-Sultan

DURATION: 2.5 months after signing the contract

Introduction:

UNDP and the Government of the Republic of Kazakhstan, with the financial participation of the GEF, support Kazakhstan's efforts to reduce the impact on climate change in the urban sector, including the development and testing of various conditions and incentives for the implementation of the necessary measures and, above all, to improve the energy efficiency of various sectors of housing and communal services, energy supply, transport and waste management.

The UNDP-GEF Project Sustainable Cities for Low-Carbon Development (UNDP-GEF Project) aims to assist in the identification, design and implementation of climate change mitigation measures appropriate to national conditions in the urban sector. These measures, which include investing in efficient infrastructure, as well as capacity building, awareness raising and technical assistance, will contribute, along with improving urban services and improving the quality of life of the population in cities and towns of Kazakhstan, to the country's voluntary goals to reduce greenhouse gas emissions. The UNDP-GEF project, as a result of consultations with the Government, identified 15 pilot cities in Kazakhstan, including the city of Nur-Sultan.

Rationale:

As part of the implementation of Component No. 4 "Implementation of pilot urban mitigation (reduction) of climate change impacts taking into account national conditions (NAMA)" of the UNDP-GEF Project and the Memorandum of Cooperation signed in 2017 between the Akimat of Astana city (Nur-Sultan) and the United Nations Development Programme in Kazakhstan (UNDP), a pilot initiative is being implemented for a comprehensive low-carbon modernization of a typical urban residential area in Nur-Sultan at the intersection of Pushkin and Zhubanov streets, with residential buildings at the addresses: 7 Pushkin str., Zhubanov str. buildings 3, 3/1 and 3/2.

Within the framework of this terms of reference, it is planned to modernize two of the five apartment buildings: Zhubanov street, building #3 and #3/1. These multi-apartment residential buildings refer to a standard project developed by the All-Union State Design and Engineering Institute "Giprostroyindustriya" of the Gosstroy USSR in 1958, revised in 1960, put into effect by order of CRIMED (Central Research Institute of Model and Experimental Design) of residential and public buildings No. 32 dated February 20, 1968 and received the name "Series No. 1-464".

Multi-apartment residential buildings or apartment blocks are five-storey, 4-entrance (1 per sub-block) large-panel buildings with a rectangular technical basement in plan with external dimensions of 11.840 x 73.170 (m). The total number of apartment units in each building or apartment block is 80. There are 4 sub-blocks. The number of apartment units on one sub-block is 4. There is a basement under the building where the distribution networks of engineering systems are located. The residential buildings or apartment blocks were built in 1964.

Each building has an individual heating point, a central heat exchanger that heats the circulating heating water that is supplied through a one pipe system to the heating units in each apartment unit. From the apartment units, the heating water is piped back to the central heat exchanger. The heat input into the central heat exchanger is supplied from the city heating network.

Expected work:

- 1. Clarification of the schedule for the purchase, delivery, storage of building material and production of work. (CMP).**

2. Dismantling of existing heating points and pipelines of heating and hot water supply systems (Total):

- Heat point - 2 units
- Heating system, total pipeline length - 1580 m
- HWS system, cold water supply, total pipe length - 836 m

3. Installation of automated substations with weather regulation

According to the working projects "Overhaul of an apartment building located at the address: Nur-Sultan, Baikonur district, Zhubanov str., Building No. 3", RP "Overhaul of an apartment building located at the address: Nur - Sultan, Baikonur district, Zhubanov str., No. 3/1 "it is planned to modernize the heating and hot water supply systems in apartment buildings. Existing design load:

- Zhubanov str., no. 3: heating systems - 0.239 Gcal; HWS-0.195 Gcal,
- Zhubanov str., no. 3/1: heating systems - 0.233 Gcal; HWS-0.219 Gcal.

- 1) For the heating system - the connection of the heating circuit to the heating networks is carried out according to a dependent scheme with the installation of an in-line control valve and a circulation pump mixing group.
- 2) For the HWS system, connection is made according to a two-stage mixed scheme by installing gasketed plate heat exchangers, a circulation pump, and a hot water temperature controller with an electric drive.
- 3) The heat consumption metering system at the heat input unit, installed earlier, does not support the simultaneous metering of heat-consuming heating and hot water supply circuits with pressure control in the supply and return pipelines, as well as connection to the dispatch control and management system. It is planned to replace the heat metering system to separately meter the temperatures on the water supply pipeline for the needs of hot water supply with connection to a double-circuit heat separator.
- 4) Provide insulation for all elements of heat point.

4. Replacement of distribution pipelines of hot water supply, cold water supply and heating systems with balancing of the heat carrier distribution system

The following should be performed as per the project:

- 1) replacement of distribution pipelines of heating systems and reconstruction of the piping layout according to the diagram presented in the working project to improve the distribution of the coolant in the system with the installation of balancing valves on the branches;
- 2) provision is made for the replacement of cold water and hot water supply pipelines and the laying of circulation lines in the basement;
- 3) the reconstruction of the water metering unit is envisaged in accordance with the requirements of regulatory documents and the city water supply enterprise;
- 4) all heating and hot water pipes in the basement are insulated. PPR pipelines are insulated with polyolefin foam (elastic tubular insulation with contact adhesive in longitudinal section).

5. Launching and commissioning of the systems.

Note: The project documentation will be sent to interested organisations upon request.

Expected results of work:

№	RESULTS	EXPECTED DATES	COORDINATION AND APPROVAL	PAYMENT
1	Agreed schedule for the supply of equipment and work. <u>Completion form</u> - an agreed schedule for the supply of equipment and work.	2 weeks after signing the contract	Coordination with the energy efficiency expert of the UNDP-GEF project, who will carry out on-site inspection of the work done and an inspection report detailing the findings (e.g., compliance with tech specs) before the signing off on the work acceptance, and approval by the UNDP-GEF project manager	15%
2	Modernization of the heating and hot water supply system of the multiapartment residential building at St. Zhubanov No.3: 1. Dismantling of the old Heating Point 2. Installation of Automated Heating Point	1 month after signing the contract	Coordination with the EE expert of the UNDP-GEF project, who will carry out on-site inspection of the work done and an	30%

	<p>3. Replacement of distribution pipelines for hot water supply, cold water supply and heating</p> <p><u>Completion Form:</u></p> <ul style="list-style-type: none"> • Interim technical report • Receipts for construction materials; • Act of completed works approved by UNDP; • Act of acceptance of completed works approved by UNDP 		inspection report detailing the findings (e.g., compliance with tech specs) before the signing off on the work acceptance, and approval by the UNDP-GEF project manager	
3	<p>Modernization of the heating and hot water supply system of the multiapartment residential building at St. Zhubanov No. 3/1:</p> <p>1. Dismantling of the old Heating Point</p> <p>2. Installation of Automated Heating Point</p> <p>3. Replacement of distribution pipelines for hot water supply, cold water supply and heating</p> <p><u>Completion Form:</u></p> <ul style="list-style-type: none"> • Interim technical report • Receipts for construction materials; • Act of completed works approved by UNDP; • Act of acceptance of completed works approved by UNDP 	2 months after signing the contract	Coordination with the EE expert of the UNDP-GEF project and approval by the UNDP-GEF project manager	30%
4	Launch and commissioning of the systems, delivery of objects, final report.	2.5 months after the start of the heating season		25%

Special notice:

- The reports must be submitted in electronic form, Russian language, PDF format, font Times New Roman, size 12.
- The contractor must provide a warranty period for the equipment and materials used (at least 1 year) and for the quality of installation work (at least 1 years);
- Terms of execution of work – 2.5 months from the date of signing the contract.
- Payment shall be done upon successful completion of deliverables stipulated by the TOR, provision and approval of reports and Acts of acceptance of completed works approved from the UNDP side.

General requirements for production of works

1. All construction works is required to be performed on the basis the submitted project and organizational and technological documentation developed by the design organization in accordance with the requirements of state standards and in compliance with safety requirements in accordance with the requirements of CN RK 1.04-26-2011 "Reconstruction, major and current repairs of residential and public buildings", CN RK 4.02-108- 2014 "Design of heat points", CN RK 4.02-01-2011, CN RK 4.02-101-2012 "Heating, ventilation and air conditioning", CN RK 4.01-01-2011, CN RK 4.01-101-2012 "Internal water supply and sewerage of buildings and structures".
2. The Design/Author Supervision and the expert (engineer) carry out supervision and control over the quality of construction work performed, check the compliance of materials and structures used by the Supplier, the terms of the contract for construction work, the requirements of the Terms of Reference and applicable in the Republic of Kazakhstan state standards, construction, fire and sanitary norms and rules (GOST, SNiP, SanPiN) established for these types of work, takes part in the delivery and acceptance of work performed, inspection of hidden work, draws up acts and other documents within its competence.
3. All construction work must be carried out at the expense of Supplier using its own resources (materials, structures, technological equipment considering minimum requirements to technical specification provided in the Table 1 and Table 2 below).
4. **IMPORTANT !!! In connection with the COVID-19 pandemic, the Supplier undertakes to provide all necessary protective equipment for its employees and to comply with all the norms and recommendations of WHO, as well as local authorized bodies for work during the epidemic. The service provider is responsible for the proper and timely provision of its employees involved in this Terms of Reference with all necessary personal protective equipment in accordance with the current WHO recommendations (masks, gloves, sanitizers, passing the COVID-19 test (if necessary), for the entire the term of the contract.**

Obligations of a Supplier

When carrying out construction and installation work, the Supplier must:

- Coordinate its actions with the designated expert of the UNDP-GEF Energy Efficiency Project and report to the UNDP-GEF Project Manager.
- Ensure timely and high-quality execution of the requirements of the ToR and the terms of the Agreement;
- Interact with the heat supplier and the management company (AAO).
- Ensure supply of necessary equipment at place of production of construction work, high-quality and timely execution of all work in full compliance with the terms of current request for quotations (as per the Table 1 and Table 2);
- Pre-agree with the Customer in writing terms and the time of outages of the existing engineering systems of the Building or their individual sections required for the production of construction work;
- Carry out daily cleaning of work sites and collect construction waste in bags, ensure their storage in their own containers on the adjacent territory of the Building with subsequent removal by your own transport;
- Compensate for damage and eliminate by own efforts and means damage to the power supply system and / or engineering communications Buildings caused by the fault of the Service Provider during construction installation work, including clogging of the sewer system of the Building due to the discharge of solid or suspended waste;
- Observe the rules of fire and technical safety;
- Timely eliminate by own forces and means of violation and / or defects identified during the acceptance of construction and installation works and during the warranty period;
- Upon completion of all construction work, clean premises and adjacent territory of the Building, take out the construction garbage and unused materials by own forces and means before the date of acceptance of work performed by the Customer Supplier under a contract for construction work;
 - Dismantle and remove by own forces and means from the adjacent territory of the Building, all utility rooms and sanitary hygiene devices, as well as technological equipment used in the construction and installation works, within 3 (three) calendar days from the date of signing by both by the parties of the Certificate of acceptance of the work performed.

Control of work production

- In the course of construction work, the Supplier is responsible for timely and proper execution of necessary technical and executive documentation (work log, acts acceptance of work performed, certificates of inspection of hidden works and others) in accordance with the instructions RD-11-02-200626.12.2006 "Requirements for the composition and procedure for maintaining executive documentation during construction, reconstruction, overhaul of capital construction facilities and requirements for certificates of inspection of works, structures, sections of networks of engineering and technical support. "
- The works will be accepted after the inspection by Design/Author Supervision and a representative from the heat supplier and the management company (AAO);
- Ensure the implementation of construction and installation work in accordance with the provided commercial proposal with the proper quality in strict accordance with the current state building codes and regulations in compliance with the work technology, labour protection and fire safety requirements when performing work.
- Based on the results of the completed construction work, the Supplier undertakes to provide warranty and service maintenance of the facility within 12 months from the date of signing the certificate of completion.

Considering for the implementation of works the Supplier must ensure supply of necessary equipment at place of production of construction work, the following minimum technical specifications for the main equipment are provided below in the Table 1 and Table 2.

Table 1. The list of equipment for modernization of the heating and hot water supply system of the multiapartment residential building in Nur-Sultan, Baikonur district, Zhubanov str., building #3.

Main equipment to be Supplied	Technical specification
Heat exchanger, plate, for the 1 st stage of HWS	Load Q = 136 kW; working medium: water / water; working pressure up to 16 kgf / cm ² ; temperature range: -10 to + 180 ° C
Heat exchanger, plate, for the 2 nd stage of HWS	Load Q = 227 kW; working medium: water / water; working pressure up to 16 kgf / cm ² ; temperature range: -10 to + 180 ° C
A heat calculator with autonomous power supply and the ability to connect up to 6 flow sensors, 5 temperatures, 4-overpressure sensors.	Working environment temperature from 2 to 160 ° C. Productivity from 0.6 to 3000 m ³ / hour. Relative error of indications no more:

Functions: registration of heating medium parameters, archiving of measured and calculated values in non-volatile memory, monitoring of the current values of the heat consumption process transmission of data on heat consumption to external devices and systems (ASMAER /automated system for monitoring and accounting of energy resources).	<ul style="list-style-type: none"> • thermal energy $\pm (0.05 + 3 / Dt)\%$; • mass $\pm 0.1\%$; • time $\pm 0.01\%$ • Absolute reading error no more: temperature difference $\pm 0.03^\circ\text{C}$; • temperature $\pm 0.1^\circ\text{C}$; • volume ± 1 unit ml. discharge of indications. • The reduced error of pressure readings is not more than $\pm 0.25\%$
Electromagnetic flowmeter	DN = 32 mm with measuring range $G_{\min} = 0.2 \text{ t/h}$ up to $G_{\max} = 30 \text{ t/h}$ and DN = 20 mm with measuring range $G_{\min} = 0.1 \text{ t/h}$ up to $G_{\max} = 12 \text{ t/h}$
Automatic differential pressure regulator. Functions: Differential pressure control in the heating / cooling circuit.	Flow rate $21 \text{ m}^3/\text{h}$, control range: 0.4-2.1 bar. Controlled medium temperature: $0 - 150^\circ\text{C}$, nominal pressure $P_N = 16 \text{ bar}$, valve connection - external thread. $D_u = 40\text{mm}$.
Regulating globe valve for heating system	Nominal diameter DN: 25 / P_N pressure in (bar): 16 / Temperature range ($^\circ\text{C}$): $-10 \dots + 130$. Connection: external thread. Control characteristic: logarithmic. Flow rate $K_v = 10 (\text{m}^3/\text{h})$
Control valve electric drive	Control signal: three-position pulse Ambient temperature range ($^\circ\text{C}$): $0 \dots + 50$, maximum temperature of the heat carrier - 130°C , Power supply $\sim (B)$: 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz
HWS system control valve	Nominal diameter DN: 25 / P_N pressure in (bar): 16 / Temperature range ($^\circ\text{C}$): $-10 \dots + 130$. Connection: external thread. Control characteristic: logarithmic. Flow rate $K_v = 10 (\text{m}^3/\text{h})$
Control valve electric drive of HWS system	Control signal: three-position pulse Ambient temperature range ($^\circ\text{C}$): $0 \dots + 50$, maximum temperature of the heat carrier - 130°C , Power supply $\sim (B)$: 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz
Electronic temperature controller with display and rotary button of ECL 210 type	Ambient operating temperature from 0 to -55°C . Storage and transport temperature From -40 to $+70^\circ\text{C}$. Temperature sensor type Pt 1000 (1000 ohm at 0°C according to IEC 751B), operating range - 60 to 150°C . Digital input 12 V. Analog input $0 - 10 \text{ V}$, resolution 9 bits. Input frequency - Max. 200 Hz. Display - graphic monochrome display with backlight, 128×96 pixels. Protection class IP 41.
Circulation pump for heating system	Productivity is $9.6 \text{ m}^3/\text{hour}$; $H = 5.0 \text{ m}$. Mains connection: $1 \sim 230 \text{ V}$, 50 Hz (depending on type), $3 \sim 230 \text{ V}$, 50 Hz (switching plug optional), three-phase network, 400 V , 50 Hz ; IP X4D protection class; Max. working pressure: $6/10 \text{ bar}$; Max temp. liquids 130°C .
Circulation pump for HWS system	Productivity $1.3 \text{ m}^3/\text{hour}$; $H = 4.0 \text{ m}$. Mains connection: $1 \sim 230 \text{ V}$, 50 Hz (depending on type), $3 \sim 230 \text{ V}$, 50 Hz (switching plug optional), three-phase network, 400 V , 50 Hz ; IP X4D protection class; Max. working pressure: $6/10 \text{ bar}$

Table 2. The list of equipment for modernization of the heating and hot water supply system of the multiapartment residential building in Nur-Sultan, Baikonur district, Zhubanov street, #3 / 1

Equipment to be Supplied	Technical specification
Heat exchanger, plate, for the 1 st stage of HWS	Load $Q = 153 \text{ kW}$; working medium: water / water; working pressure up to 16 kgf/cm^2 ; temperature range: -10 to $+180^\circ\text{C}$
Heat exchanger, plate, for the 2 nd stage of HWS	Load $Q = 255 \text{ kW}$; working medium: water / water; working pressure up to 16 kgf/cm^2 ; temperature range: -10 to $+180^\circ\text{C}$
A heat calculator with autonomous power supply and the ability to connect up to 6 flow sensors, 5 temperatures, 4-overpressure sensors.	Working environment temperature from 2 to 160°C . Productivity from 0.6 to $3000 \text{ m}^3/\text{hour}$. Relative error of indications no more:

Functions: registration of heating medium parameters, archiving of measured and calculated values in non-volatile memory, monitoring of the current values of the heat consumption process transmission of data on heat consumption to external devices and systems (ASMAER /automated system for monitoring and accounting of energy resources).	thermal energy $\pm (0.05 + 3 / Dt) \%$; mass $\pm 0.1\%$; time $\pm 0.01\%$ Absolute reading error no more: temperature difference $\pm 0.03^\circ \text{C}$; temperature $\pm 0.1^\circ \text{C}$; volume ± 1 unit ml. discharge of indications. The reduced error of pressure readings is not more than $\pm 0.25\%$.
Electromagnetic flowmeter	DN = 32 mm with measuring range $G_{\min} = 0.2 \text{ t/h}$ up to $G_{\max} = 30 \text{ t/h}$ and DN = 20 mm with measuring range $G_{\min} = 0.1 \text{ t/h}$ up to $G_{\max} = 12 \text{ t/h}$
Automatic differential pressure regulator. Functions: Differential pressure control in the heating / cooling circuit.	Flow rate $21 \text{ m}^3/\text{h}$, control range: 0.4-2.1 bar. Controlled medium temperature: $0 - 150^\circ \text{C}$, nominal pressure $P_N = 16 \text{ bar}$, valve connection - external thread. DN = 40mm.
Regulating globe valve for heating system	Nominal diameter DN: 25 / PN pressure in (bar): 16 / Temperature range ($^\circ \text{C}$): $-10 \dots +130$. Connection: external thread. Control characteristic: logarithmic. Flow rate $K_v = 10 (\text{m}^3/\text{h})$
Control valve electric drive	Control signal: three-position pulse Ambient temperature range ($^\circ \text{C}$): $0 \dots +50$, maximum temperature of the heat carrier - 130°C , Power supply $\sim (B)$: 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz
HWS system control valve	Nominal diameter DN: 25 / PN pressure in (bar): 16 / Temperature range ($^\circ \text{C}$): $-10 \dots +130$. Connection: external thread. Control characteristic: logarithmic. Flow rate $K_v = 10 (\text{m}^3/\text{h})$
Control valve electric drive of HWS system	Control signal: three-position pulse Ambient temperature range ($^\circ \text{C}$): $0 \dots +50$, maximum temperature of the heat carrier - 130°C , Power supply $\sim (B)$: 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz
Electronic temperature controller with display and rotary button of ECL 210 type	Ambient operating temperature from 0 to -55°C . Storage and transport temperature From -40 to $+70^\circ \text{C}$. Temperature sensor type Pt 1000 (1000 ohm at 0°C according to IEC 751B), operating range - 60 to 150°C . Digital input 12 V. Analog input $0 - 10 \text{ V}$, resolution 9 bits. Input frequency - Max. 200 Hz. Display - graphic monochrome display with backlight, 128×96 pixels. Protection class IP 41
Circulation pump for heating system	Productivity is $9.33 \text{ m}^3/\text{hour}$; $H = 5.0 \text{ m}$. Mains connection: $1 \sim 230 \text{ V}$, 50 Hz (depending on type), $3 \sim 230 \text{ V}$, 50 Hz (switching plug optional), three-phase network, 400 V , 50 Hz ; IP X4D protection class; Max. working pressure: $6/10 \text{ bar}$; Max temp. liquids 130°C .
Circulation pump for HWS system	Productivity $1.3 \text{ m}^3/\text{hour}$; $H = 4.0 \text{ m}$. Mains connection: $1 \sim 230 \text{ V}$, 50 Hz (depending on type), $3 \sim 230 \text{ V}$, 50 Hz (switching plug optional), three-phase network, 400 V , 50 Hz ; IP X4D protection class; Max. working pressure: $6/10 \text{ bar}$

Contractors will be evaluated based on Lowest price, technically compliant method, on Pass/Fail evaluation criteria on the requirements specified in the TOR.

ANNEX 2: QUOTATION SUBMISSION FORM

Bidders are requested to complete this form, including the Company Profile and Bidder's Declaration, sign it and return it as part of their quotation along with Annex 3: Technical and Financial Offer. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.

Name of Bidder:		
RFQ reference:		Date:

Company Profile

Item Description	Detail
Legal name of bidder or Lead entity for JVs	
Legal Address, City, Country	
Website	
Year of Registration	
Legal structure	
Are you a UNGM registered vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes,
Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your organization demonstrate significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues (If yes, provide a Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is your company a member of the UN Global Compact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Bank Information	Bank Name: Bank Address: IBAN:

		SWIFT/BIC: Account Currency: Bank Account Number:		
Previous relevant experience: 3 contracts				
Name of previous contracts	Client & Reference Contact Details including e-mail	Contract Value	Period of activity	Types of activities undertaken

Bidder's Declaration

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Requirements and Terms and Conditions: I/We have read and fully understand the RFQ, including the RFQ Information and Data, Schedule of Requirements, the General Conditions of Contract, and any Special Conditions of Contract. I/we confirm that the Bidder agrees to be bound by them.
<input type="checkbox"/>	<input type="checkbox"/>	I/We confirm that the Bidder has the necessary capacity, capability, and necessary licenses to fully meet or exceed the Requirements and will be available to deliver throughout the relevant Contract period.
<input type="checkbox"/>	<input type="checkbox"/>	Ethics: In submitting this Quote I/we warrant that the bidder: has not entered into any improper, illegal, collusive or anti-competitive arrangements with any Competitor; has not directly or indirectly approached any representative of the Buyer (other than the Point of Contact) to lobby or solicit information in relation to the RFQ ;has not attempted to influence, or provide any form of personal inducement, reward or benefit to any representative of the Buyer.
<input type="checkbox"/>	<input type="checkbox"/>	I/We confirm to undertake not to engage in proscribed practices, , or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we have read the United Nations Supplier Code of Conduct : https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct and acknowledge that it provides the minimum standards expected of suppliers to the UN.
<input type="checkbox"/>	<input type="checkbox"/>	Conflict of interest: I/We warrant that the bidder has no actual, potential, or perceived Conflict of Interest in submitting this Quote or entering a Contract to deliver the Requirements. Where a Conflict of Interest arises during the RFQ process the bidder will report it immediately to the Procuring Organisation's Point of Contact.
<input type="checkbox"/>	<input type="checkbox"/>	Prohibitions, Sanctions: I/We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium members or subcontractors or suppliers for any part of the contract is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists and have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization.
<input type="checkbox"/>	<input type="checkbox"/>	Bankruptcy: I/We have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future.
<input type="checkbox"/>	<input type="checkbox"/>	Offer Validity Period: I/We confirm that this Quote, including the price, remains open for acceptance for the Offer Validity.
<input type="checkbox"/>	<input type="checkbox"/>	I/We understand and recognize that you are not bound to accept any Quotation you receive, and we certify that the goods offered in our Quotation are new and unused.
<input type="checkbox"/>	<input type="checkbox"/>	By signing this declaration, the signatory below represents, warrants and agrees that he/she has been authorised by the Organization/s to make this declaration on its/their behalf.

Signature: _____

Name:

Title:

Date:

ANNEX 3: TECHNICAL AND FINANCIAL OFFER – WORKS

Bidders are requested to complete this form, sign it and return it as part of their quotation along with Annex 2 Quotation Submission Form. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.

Name of Bidder:		
RFQ reference:		Date:

Technical Offer (Table-A)

Provide the following:

- a brief description of your qualification and capacity that is relevant to the Scope of Works;
- a brief method statement and implementation plan;
- team composition and CVs of key personnel

Compliance with technical specifications

1. The list of equipment for modernization of the heating and hot water supply system of the multiapartment residential building in Nur-Sultan, Baikonur district, Zhubanov str., building #3.

Equipment to be Supplied	Technical specification	Your response		
		Compliance with technical specifications		Comments
		Yes, we comply	No, we cannot comply <i>(indicate discrepancies)</i>	
Brand and name of manufacture				
Heat exchanger, plate, for the 1 st stage of HWS	Load Q = 136 kW; working medium: water / water; working pressure up to 16 kgf / cm ² ; temperature range: -10 to + 180 ° C			
Heat exchanger, plate, for the 2 nd stage of HWS	Load Q = 227 kW; working medium: water / water; working pressure up to 16 kgf / cm ² ; temperature range: -10 to + 180 ° C			
A heat calculator with autonomous power supply and the ability to connect up to 6 flow sensors, 5 temperatures, 4-overpressure sensors. Functions: registration of heating medium parameters, archiving of measured and calculated values in non-volatile memory, monitoring of the current values of the heat consumption process transmission of data on heat consumption to external devices and systems (ASMAER /automated system for monitoring and accounting of energy resources).	Working environment temperature from 2 to 160 ° C. Productivity from 0.6 to 3000 m ³ / hour. Relative error of indications no more: <ul style="list-style-type: none"> • thermal energy $\pm (0.05 + 3 / Dt)\%$; • mass $\pm 0.1\%$; • time $\pm 0.01\%$ • Absolute reading error no more: temperature difference ± 0.03 ° C; • temperature ± 0.1 ° C; • volume ± 1 unit ml. discharge of indications. The reduced error of pressure readings is not more than $\pm 0.25\%$			
Electromagnetic flowmeter	DN = 32 mm with measuring range Gmin = 0.2 t / h up to Gmax = 30 t / h and DN = 20 mm with measuring range Gmin = 0.1 t / h up to Gmax = 12 t / h			
Automatic differential pressure regulator. Functions: Differential	Flow rate 21 m ³ / h, control range: 0.4-2.1 bar. Controlled medium temperature: 0 - 150			

pressure control in the heating / cooling circuit.	° C, nominal pressure PN = 16 bar, valve connection - external thread. Du = 40mm.			
Regulating globe valve for heating system	Nominal diameter DN: 25 / PN pressure in (bar): 16 / Temperature range (C°): -10 ... + 130. Connection: external thread. Control characteristic: logarithmic. Flow rate Kv = 10 (m³ / h)			
Control valve electric drive	Control signal: three-position pulse Ambient temperature range (C°): 0 ... + 50, maximum temperature of the heat carrier - 130 ° C, Power supply ~ (B): 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz			
HWS system control valve	Nominal diameter DN: 25 / PN pressure in (bar): 16 / Temperature range (C°): -10 ... + 130. Connection: external thread. Control characteristic: logarithmic. Flow rate Kv = 10 (m³ / h)			
Control valve electric drive of HWS system	Control signal: three-position pulse Ambient temperature range (C°): 0 ... + 50, maximum temperature of the heat carrier - 130 ° C, Power supply ~ (B): 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz			
Electronic temperature controller with display and rotary button of ECL 210 type	Ambient operating temperature from 0 to – 55 ° C. Storage and transport temperature From - 40 to +70 ° C. Temperature sensor type Pt 1000 (1000 ohm at 0 ° C according to IEC 751B), operating range - 60 to 150 ° C. Digital input 12 V. Analog input 0 - 10 V, resolution 9 bits. Input frequency - Max. 200 Hz. Display - graphic monochrome display with backlight, 128 x 96 pixels. Protection class IP 41..			
Circulation pump for heating system	Productivity is 9.6 m³ / hour; H = 5.0 m. Mains connection: 1 ~ 230 V, 50 Hz (depending on type), 3 ~ 230 V, 50 Hz (switching plug optional), three-phase network, 400 V, 50 Hz; IP X4D protection class; Max. working pressure: 6/10 bar; Max temp. liquids 130 ° C.			
Circulation pump for HWS system	Productivity 1.3 m³ / hour; H = 4.0 m. Mains connection: 1 ~ 230 V, 50 Hz (depending on type), 3 ~ 230 V, 50 Hz (switching plug optional), three-phase network, 400 V, 50 Hz; IP X4D protection class; Max. working pressure: 6/10 bar			

2. The list of equipment for modernization of the heating and hot water supply system of the multiapartment residential building in Nur-Sultan, Baikonur district, Zhubanov street, #3 / 1

Equipment to be Supplied	Technical specification	Your response	
		Compliance with technical specifications	Comments

		Yes, we comply	No, we cannot comply <i>(indicate discrepancy)</i>	
Brand and name of manufacture				
Heat exchanger, plate, for the 1 st stage of HWS	Load Q = 153 kW; working medium: water / water; working pressure up to 16 kgf / cm ² ; temperature range: -10 to + 180 ° C			
Heat exchanger, plate, for the 2 nd stage of HWS	Load Q = 255 kW; working medium: water / water; working pressure up to 16 kgf / cm ² ; temperature range: -10 to + 180 ° C			
A heat calculator with autonomous power supply and the ability to connect up to 6 flow sensors, 5 temperatures, 4-overpressure sensors. Functions: registration of heating medium parameters, archiving of measured and calculated values in non-volatile memory, monitoring of the current values of the heat consumption process transmission of data on heat consumption to external devices and systems (ASMAER /automated system for monitoring and accounting of energy resources).	Working environment temperature from 2 to 160 ° C. Productivity from 0.6 to 3000 m ³ / hour. Relative error of indications no more: thermal energy $\pm (0.05 + 3 / Dt) \%$; mass $\pm 0.1\%$; time $\pm 0.01\%$ Absolute reading error no more: temperature difference ± 0.03 ° C; temperature ± 0.1 ° C; volume ± 1 unit ml. discharge of indications. The reduced error of pressure readings is not more than $\pm 0.25\%$.			
Electromagnetic flowmeter	DN = 32 mm with measuring range Gmin = 0.2 t / h up to Gmax = 30 t / h and DN = 20 mm with measuring range Gmin = 0.1 t / h up to Gmax = 12 t / h			
Automatic differential pressure regulator. Functions: Differential pressure control in the heating / cooling circuit.	Flow rate 21 m ³ / h, control range: 0.4-2.1 bar. Controlled medium temperature: 0 - 150 ° C, nominal pressure PN = 16 bar, valve connection - external thread. DN = 40mm.			
Regulating globe valve for heating system	Nominal diameter DN: 25 / PN pressure in (bar): 16 / Temperature range (C°): -10 ... + 130. Connection: external thread. Control characteristic: logarithmic. Flow rate Kv = 10 (m ³ / h)			
Control valve electric drive	Control signal: three-position pulse Ambient temperature range (C°): 0 ... + 50, maximum temperature of the heat carrier - 130 ° C, Power supply ~ (B): 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz			
HWS system control valve	Nominal diameter DN: 25 / PN pressure in (bar): 16 / Temperature range (C°): -10 ... + 130. Connection: external thread. Control characteristic: logarithmic. Flow rate Kv = 10 (m ³ / h)			
Control valve electric drive of HWS system	Control signal: three-position pulse Ambient temperature range (C°): 0 ... + 50, maximum temperature of the heat carrier - 130 ° C,			

	Power supply ~ (B): 220, 24, protection class IP54. Power consumption 2 VA, current frequency 50/60 Hz			
Electronic temperature controller with display and rotary button of ECL 210 type	Ambient operating temperature from 0 to – 55 ° C. Storage and transport temperature From - 40 to +70 ° C. Temperature sensor type Pt 1000 (1000 ohm at 0 ° C according to IEC 751B), operating range - 60 to 150 ° C. Digital input 12 V. Analog input 0 - 10 V, resolution 9 bits. Input frequency - Max. 200 Hz. Display - graphic monochrome display with backlight, 128 x 96 pixels. Protection class IP 41.			
Circulation pump for heating system	Productivity is 9.33 m ³ / hour; H = 5.0 m. Mains connection: 1 ~ 230 V, 50 Hz (depending on type), 3 ~ 230 V, 50 Hz (switching plug optional), three-phase network, 400 V, 50 Hz; IP X4D protection class; Max. working pressure: 6/10 bar; Max temp. liquids 130 ° C.			
Circulation pump for HWS system	Productivity 1.3 m ³ / hour; H = 4.0 m. Mains connection: 1 ~ 230 V, 50 Hz (depending on type), 3 ~ 230 V, 50 Hz (switching plug optional), three-phase network, 400 V, 50 Hz; IP X4D protection class; Max. working pressure: 6/10 bar			

Compliance with general requirements

	You Responses		
	Yes, we will comply	No, we cannot comply	If you cannot comply, pls. indicate counter - offer
Delivery Work Period 2.5 months	<input type="checkbox"/>	<input type="checkbox"/>	
Validity of Quotation 90 days	<input type="checkbox"/>	<input type="checkbox"/>	
Warranty period for the equipment and materials used (at least 1 year) and for the quality of installation work (at least 1 year);	<input type="checkbox"/>	<input type="checkbox"/>	
Cancellation of PO/Contract if the delivery/completion is delayed by 30 calendar days.	<input type="checkbox"/>	<input type="checkbox"/>	
At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.	<input type="checkbox"/>	<input type="checkbox"/>	
Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract. Percentage of contract price per calendar day of delay: 0.1% per calendar day up to Max. percentage of 10%, after which UNDP may terminate the contract	<input type="checkbox"/>	<input type="checkbox"/>	

Financial Offer Summary (Table B)

Currency of the Quotation: Kazakh tenge (KZT)		
Item No	Description	Total price
1	<p>Agreed schedule for the supply of equipment and work.</p> <p><u>Completion form</u> - an agreed schedule for the supply of equipment and work.</p>	
2	<p>Modernization of the heating and hot water supply system of the multiapartment residential building at St. Zhubanov No.3:</p> <ol style="list-style-type: none"> 1. Dismantling of the old Heating Point 2. Installation of Automated Heating Point 3. Replacement of distribution pipelines for hot water supply, cold water supply and heating <p><u>Completion Form:</u></p> <ul style="list-style-type: none"> • Interim technical report • Receipts for construction materials; • Act of completed works approved by UNDP; • Act of acceptance of completed works approved by UNDP 	
3	<p>Modernization of the heating and hot water supply system of the multiapartment residential building at St. Zhubanov No. 3/1:</p> <ol style="list-style-type: none"> 1. Dismantling of the old Heating Point 2. Installation of Automated Heating Point 3. Replacement of distribution pipelines for hot water supply, cold water supply and heating <p><u>Completion Form:</u></p> <ul style="list-style-type: none"> • Interim technical report • Receipts for construction materials; • Act of completed works approved by UNDP; • Act of acceptance of completed works approved by UNDP 	
4	Launch and commissioning of the systems, delivery of objects, final report.	
VAT		
Total Final and All-inclusive Price		

The detail breakdown of Financial Offer must be provided in a separate document – Bill of Quantities (BoQ) attached hereto as Appendix A.

I, the undersigned, certify that I am duly authorized to sign this quotation and bind the company below in event that the quotation is accepted.

<i>Exact name and address of company</i> Company Name Address: Phone No.: Email Address:	Authorized Signature: Date: Name: Functional Title of Authorised Signatory: Email Address:
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