

Emergency Action Plan

For the Activation of Contingent Emergency Response Component of Second Urban Infrastructure Project to support the Government of Ukraine's response to the Russian Federation's military offensive.

Date: October __, 2022

Acronyms

UIP-2 Project	Second Urban Infrastructure Project
Minregion	Ministry for Communities and Territories Development of Ukraine
MoF	Ministry of Finance
CERC	Contingent Emergency Response Component
CPMU	Central Project Management Unit

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I. Overview of the Emergency of Crisis

1. **To allow the Government of Ukraine to respond to emergency financing needs resulting from the Russian Federation military invasion which began on February 24, 2022, it is proposed that unallocated amount of US\$ 56 829 250,00 from UIP-2 Project to be reallocated to the Contingent Emergency Response Component (CERC), Component 4.**
2. **In the course of the escalation of an armed aggression by the RF, there is an urgent need to address the issue of providing the affected areas with water, wastewater and heating services.**
3. **The Russian Federation military invasion on February 24, 2022 has caused the deterioration of service delivery, infrastructure, macroeconomic and poverty conditions.** More than half of the economy has shut down and critical infrastructure assets have been destroyed. More than 7,000 houses have been destroyed or damaged, about 30 per cent of enterprises have stopped operating and 45 per cent are only operating part-time, while electricity consumption has fallen by 35 per cent. Government spending has been cut by more than \$6 billion, but severe deficits remain as revenues are just over half of the revenues received before the invasion. The economy is expected to shrink by an estimated 45.1 percent this year, although the magnitude of the contraction will depend on the duration and intensity of the war.
4. **Direct consequences of RF aggression.** Damage/destruction of the WSS infrastructure facilities together with other critical service lines (in particular, heating networks, power grids, and gas supply networks) due to the armed aggression of the RF on the territory of Ukraine. Along with the above-mentioned negative impact factor, this leads to critical consequences, namely:
 - according to the specialized structure of UNICEF (at the UN), due to the war, about 6 million Ukrainians are encountering problems with access to drinking water as of 01 May 2022. In general, 13,6 million Ukrainians suffer from a lack of water for sanitary and hygienic needs. In particular, due to the lack of water supply and sanitation services in some localities, it is impossible to provide high-quality medical care at the second and third levels, so there is a threat of developing infectious diseases;
 - As a result of active military operations and/or cases of missile strikes (in particular, air strikes and bombardment with a multiple launch rocket system (MLRS)), access to drinking water was partially or completely absent in the following cities and towns: Kyiv region, Druzhkivka, Donetsk, Kostiantynivka, Berdiansk, Mariupol, Mykolaiv, Popasna, Prymorsk, Izium, Rubizhne, Sumy, Lysychansk, Trostianets, Severodonetsk, Kharkiv, Chernihiv, and others.

II. Socio-economic and Geographic Information of Affected Area

5. **Almost the whole territory of Ukraine has been attacked by ground and/or air with the highest intensity military actions in the south and east of the country.** Explosions and violent conflict have been reported across Ukraine, including in the cities of Kyiv (including suburb), Chernihiv, Sumy, Kharkiv, Mariupol, Mykolayiv, Kherson, Odessa, Ivano-Frankivsk, Lviv, Poltava, Ternopil etc. In the beginning of the Russian invasion the main targets of seizures, artillery and rocket attacks were military and strategic assets. Faced with strong resistance from the Ukrainian army, the Russian Federation has expanded its attacks to civilian infrastructure, including residential blocks, schools, and hospitals, critical infrastructure etc.
6. **At the same time, the level of payments for communal services since February 24, 2022 has significantly decreased,** which makes it difficult for communities and utility companies to rebuild destroyed critical infrastructure. On this basis, there is a need to provide financial support to local budgets for the reconstruction of critical infrastructure.

III. CERC Objective and Description of Component\Activities\Items

7. **The main objective of the CERC** is to rebuild destroyed critical infrastructure and relaunch water, wastewater and heating services on the affected areas.
8. **The CERC component** would specifically finance WSS and Heating infrastructure recovery including procurement of all necessary equipment and special vehicles as well as preparation and modification of the project documentation.
9. The initial list of 5 territorial communities was approved by the resolution of the Cabinet of Ministers of Ukraine dated ...date... number. Those determined administrative-territorial units are:

Zhytomyr region

1. Zhytomyr City Territorial Community

Kyiv region

2. Brovary City Territorial Community

Mykolaiv region

3. Mykolaiv city territorial community

Poltava region

4. Kremenchuk City Territorial Community

Kharkiv region

5. Kharkiv City Territorial Community

IV. CERC Budget Estimate

Table 1: Summary of CERC Cost

Components / Activities / Items	Responsible Agencies	Estimate USD
Zhytomyr region		2,116,683.00
Zhytomyr City Territorial Community	Minregion, MoF	2,116,683.00
Kyiv region		3,138,275.00
Brovary City Territorial Community	Minregion, MoF	3,138,275.00
Mykolaiv region		10,633,131.00
Mykolaiv city territorial community	Minregion, MoF	10,633,131.00
Poltava region		1,937,846.00
Kremenchuk City Territorial Community	Minregion, MoF	1,937,846.00
Kharkiv region		39,003,315.00
Kharkiv City Territorial Community	Minregion, MoF	39,003,315.00
Total:		56,829,250.00

V. Implementation and Coordination Arrangements

10. The Ministry for Communities and Territories Development of Ukraine (Minregion) serves as the implementing agency for the UIP-2 Project.

Minregion will:

- Liaise with Ministries, Non-Government Organizations and community groups in the execution of their emergency management roles and responsibilities;
- Carry out initial assessment serving as basis for official letter requesting to trigger CERC; and
- Compare and prioritize immediate disaster relief requirements.

11. The Minregion will be responsible for:

- Ensuring the delivery of the emergency activities outputs and the attainments of outcomes by facilitating coordination amongst the governmental agencies and institutions participating in the implementation and by addressing coordination issues as they arise;
- Ensuring that the financial management and disbursement policies and procedures governing the Project are applied to the management of the financial resources mobilized through other Parts of the UIP-2 in support of the CERC activities;
- Preparing and submitting monthly progress reports, until a point at which the funds have been exhausted, summarizing the activities financed under the CERC component and any lessons learned, and challenges faced in implementing these activities;
- Preparing and submitting to the Bank a final project Implementation Completion Report (ICR);

- e. To provide information regarding the effectiveness of activities implemented under the project and the ways in which the financing improved the lives of beneficiaries, Minregion may contract a firm to design and conduct a beneficiary feedback survey and such survey will inform preparation of the ICR.
- f. The UIP-2 Project Results Framework will be revised to include indicators that capture the outputs and outcomes of the CERC Component.
- g. Procuring and managing a qualified accounting firm (or amend existing contract with qualified accounting firm, as the case may be) to prepare a project audit covering all activities financed under the project;
- h. Providing guidance as needed.

VI. Procurement, Financial Management and Disbursements

12. Procurement

12.1 Since UIP-2 has been implemented using project procurement framework (policies, guidelines and documents) for project before July 2016, procurement for the CERC will be carried out using the same procurement framework and Procurement Guidelines and Consultant Guidelines as indicated in the Loan Agreement, namely: (i) "Guidelines: Procurement of Goods, Works and Non-Consulting Services under IBRD Loans and IDA Credits and Grants by World Bank Borrowers dated January 2011" and (ii) "Guidelines: Selection and Employment of Consultants under IBRD Loans and IDA Credits and Grants by World Bank Borrowers dated January 2011".

12.2 **Use of Systematic Tracking of Exchanges in Procurement (STEP):** If requested by the Bank, specific elements of the specific procurement processes must be reflected and recorded in the Bank's system for "Systematic Tracking of Exchanges in Procurement" (hereinafter - "STEP"). The elements to be reflected and recorded in STEP may vary depending on the specific procurement process being performed and requirements of the STEP system and the Bank. CPMU (to the extent given by the STEP system users' rights, and with understanding that STEP users' rights may be given to staff of RPMU) will coordinate and, if necessary, perform (or instruct RPMU to perform) all activities related to reflection and recording in STEP of procurement processes. Utility Companies must strictly comply with instructions given by the CPMU to them in order to properly reflect in STEP.

12.3 Consolidated Procurement Plan for the UIP-2 Project: has to be revised to include details as relevant to procurement under CERC Part of UIP-2. CERC is demand driven so the update for Procurement Plan can be prepared when list of eligible contracts/activities is agreed with the Government. All the selection methods defined in the applicable procurement guidelines can be used, however, priority will be given to simple procedures and to those which ensure expedited delivery, such as: Direct Contracting, Single Source Selection, Selection Based on Consultant's Qualification, Shopping with no or increased threshold limit for this method as appropriate, Framework Agreements, Procurement for United Nations Agencies. Procurement will follow either international or national approach in accordance with the procurement thresholds applicable. Procurement Plan updated with procurement

details for CERC of UIP-2 (or description of changes to Procurement Plan) shall be submitted to World Bank for prior review and no-objection and this may be done during implementation steps as indicated above. No bidding, selection procedure, contract signing may be launched unless included in the Procurement Plan (or description of changes to Procurement Plan) and cleared by the Bank.

- 12.4 The proposed procurement approach prioritizes fast track emergency procurement for the emergency goods, works and consulting and non-consulting services needed. Key measures to fast track procurement include: (i) use of simple and fast procurement and selection methods fit for an emergency situation including direct contracting or single sourcing, as appropriate, (ii) competitive procedures with shorter bidding time, (iii) use of framework agreements including existing ones, (iv) procurement from UN Agencies enabled and expedited by Bank procedures and templates, (v) use of procurement agents, (vi) force account, as needed, and (vii) increased thresholds for Shopping and national procurement among others, as well as minimal or no prior review for emergency procurement (except for review of changes to Procurement Plan). If requested by the Borrower, the Bank may consider the option of procurement hands-on expanded implementation support to help expedite all stages of procurement – from help with supplier identification, to support for bidding / selection and/or negotiations to contract signing and monitoring of implementation. In addition, Bid Securing Declaration may be asked in lieu of a Bid Security; Performance Security may not be required for small contracts; Advance payment may be increased to 40% while secured with the advance payment guarantee. With the agreement with the Bank (and as per schedule of key procurement activities in proposed update of Procurement Plan for CERC procurement) the time for submission of bids / proposals can be shortened in competitive national and international procedures depending on the value and complexity of the requested scope of bid and capacity of firms (local and international) to prepare responsive bids in the proposed periods.

13. Financial Management and Disbursement

The Minregion is responsible for ensuring that the financial management and disbursement policies and procedures governing the Project are fully and successfully applied to the management of the financial resources mobilized through Disbursement Category 3 in support of the identified emergency activities. These policies and procedures are described in PAD and detailed in Financial Management Section of the UIP-2 Project's Operation Manual.

The FM function related to CERC component will be performed at the central PIU level of Minregion, and no funds will flow to other agencies. For financial management reporting purposes to the World Bank, the Minregion's financial management specialist assigned for this project, including CERC component, will prepare and send to the Bank quarterly reports using the template agreed for the UIP-2 Project. Funds related to the CERC component will be disbursed using the same disbursement procedures as the rest of the project activities (i.e., using direct payments, reimbursements, and advances, as well as have the option for use of letters of credit). All payments under CERC component (Category 7) will be electronic using certified electronic signatures and seals. Accounting and reporting systems of Minregion allow for easy tracing of used funds related CERC component.

Incurred expenditures under Disbursement Category 7 for Emergency Expenditures under CERC will be audited by the external auditor alongside other Project activities, following the same requirements. External financial audit of CERC as well as the rest of the project will be carried out by an eligible auditor on an annual basis, on the basis of TORs agreed with the World Bank.

VII. Environmental and Social (E&S) Aspects and Requirements

Based on the specific activities planned to be financed under the CERC, as outlined in the Chapter III of this Emergency Action Plan, separate Contingent Emergency Response Component Environmental and Social Management Framework (hereinafter – CERC-ESMF) is developed. This CERC-ESMF sets out the principles, rules, guidelines and procedures to assess the environmental and social risks and impacts that may arise under CERC activities implementation. It contains list of possible risks and impacts, respective measures for their mitigation or elimination, information on the agency or agencies responsible for addressing project risks and impacts, including on its capacity. CERC-ESMF will rely as much as possible on the Original Project's social and environmental assessments and safeguard instruments.

Ministry for Communities and Territories Development of Ukraine together with SUIP Central Project Management Unit (CPMU) is responsible for the provision of the overall oversight and monitoring of the CERC implementation together with its further coordination. At the same time Ministry for Communities and Territories Development of Ukraine will monitor implementation progress and decide on critical multi-sectorial actions to address CERC implementation challenges with close cooperation with World Bank project implementation team.

The implementation of CERC activities under SUIP implementation directly on the place will be conducted by appointed Project Management Units (PIUs).

The CERC-ESMF indicates which kinds of emergency response actions can proceed with no additional environmental or social assessment, and which ones would require assessment prior to being initiated. It may also identify trade-offs, where required short-term responses could create longer-term risks that need to be managed.

On the basis of the assessment of the CERC- ESMF envisages:

- Mobilizing technical assistance and funding to prepare any additional safeguard instruments, e.g. Environmental and Social Management Plan, Resettlement Action Plan, etc.
- Preparing the safeguards instruments and carrying out their Bank review, revisions, clearance, and approval.
- Consultations and disclosure.
- Establishing roles and responsibilities for safeguards implementation, and monitoring.
- Estimating the costs for safeguards preparation and implementation

The key social risks related to issues of exclusion and access to information and services specifically for vulnerable groups should be assessed as well in the process of CERC activities implementation. Risks of Gender Behaviour Violence (GBV), Sexual Harassment (SH) may also increase as a result of abuse that's why must be assessed and in case of risk identification **eliminated**. Social tensions could arise due to concerns

about timely provision of services, provision of which were stopped due to the Russian military invasion.

For all sub-project site-specific ESMP must be prepared, based on which Contractors must develop their CESMP. ESMPs must be based on ESMF provisions and ESSs requirements. All ESMPs should be submitted to the World Bank approval with their following disclosure and local consultations (by request) with local stakeholders.

Based on the provisions of ESMPs the Contractors must prepare Contractor's environmental and social management plans (CESMP) with the detailed description of measures which planned to be taken for compliance with environmental, social, health and safety requirements and detailed description of GRM procedure (including Contractor's personnel) and health and safety occupational measures planned to be implemented during civil works. It includes the arrangement of construction sites, usage of personal protective equipment by workers, arrangement of sanitary conditions at the construction site, actions of workers during the hostilities or shelling. The CESMPs are subject for the Bank's and CPMU review and approval.

During project implementation, the Contractor's compliance with CESMPs must be closely monitored by Construction Supervision Consultant, CPMU, PIU in the applicable way.

A special requirement for CESMPs is the preparation of COVID-19 Contingency Plans by Contractors with detailed description of measures which will be taken to prevent spreading of COVID-19 and plan for response measures as well. Implementation of these measures as well as COVID-19 statistics on positive cases will be monitored by CPMU and Construction Supervision Consultant on regular basis with the help of checklist which will be included in the ESMP.

CESMP can be updated or revised throughout the project implementation. The Bank will be informed about the revision and updated version will be submitted to the Bank.

Under each sub-project specific labour management procedures (LMP) applicable to the project should be developed, approved by Contractors' employees, CPMU, World Bank and implemented.

The LMP will set out the way in which project workers will be managed, in accordance with the requirements of national law requirements and ESS2. The LMP developed for the project will set out the minimum required in order to protect workers and communities including from the threat of spreading the corona virus. In addition, the project will ensure that it will comply with WHO standards in averting community spread of the disease and any national circulars/guidelines.

Environmental and social sustainability of projects, enhancing of the project acceptance and significant contribution to successful project design and implementation will be achieved through effective stakeholder engagement can improve the. A stakeholder engagement plan must be prepared to meet the requirements of ESS10.

The Stakeholder Engagement Plan must be prepared for all sub-projects and plans must support clear communication and timely consultations, considering the needs of various stakeholders for proper adaptation of sub-project needs to the population needs.

Grievance Redress Mechanism (GRM) for all workers and all sub-project stakeholders including local population, beneficiaries and communities must be developed. During the assessment process all vulnerable and disadvantaged groups in the context of the project should be identified and proper mechanisms for their engagement must be implemented to SEP. GRM log must be provided to CPM and World Bank team on a weekly basis.

Activities and actions with low potential environmental and social risks require no further safeguards actions during project implementations. Activities with moderate potential risks will be managed using the operational ESMPs which will be reviewed and cleared by the World Bank. The ESMPs will also include measures for health and safety measures in response to COVID-19, and special arrangement for community engagement, management of risks of grievance resolution.

However, in case of need of emergency financing activities that compel a change from a lesser safeguard category to category A or that trigger new safeguards policies if required, new instruments will be prepared, consulted upon with World Bank and disclosed.

Implementation of the Project and subsequent management of environmental and social performance indicators of the project should consistent with World Bank Environmental and Social requirements, World Bank Group EHS Guidelines and requirements of Ukrainian legislation.

VIII. Monitoring and Evaluation of CERC

14. The Minregion will continue to monitor and evaluate the progress of the Project and prepare Project Reports in accordance with the provisions of the Loan Agreement. Minregion will also prepare and submit the Implementation Completion Report (ICR) to the Bank at a date agreed with the Bank before the Loan Closing Date. To provide information regarding the effectiveness of activities implemented under the project and the ways in which the activities improved the lives of beneficiaries, Minregion will contract a firm (optionally, TBD with the Bank) to design and conduct a beneficiary feedback survey. This survey will inform preparation of the ICR.

15. The UIP-2 Project Results Framework will be revised to include indicators which capture the outputs and outcomes CERC Component

Table 2: Results Framework for the CERC

CERC PDO: to address the issue of providing the affected areas with water, wastewater and heating services							
Indicator Name	Unit of Measure	Baseline	Target Value	Result		Responsibility for Data Collection	Comments
				Y1	Y2		
Direct project beneficiaries (million)	Number					CPMU	

Direct project beneficiaries who are female	Percentage					CPMU	
Piped household water connections affected by rehabilitation works undertaken under the project	Number					CPMU	
Central heating systems reconstructed	Number					CPMU	
Central heating system households affected by rehabilitation works undertaken under the project	Number					CPMU	
Energy efficiency	kWh					CPMU	The baseline indicator needs to be determined; energy efficiency of what exactly - to understand how to calculate...? For example: Energy efficiency as measured by amount of energy used per m3 of water produced in utilities participating in the project (kWh per m3 of water produced)
Energy savings	GWh/yr					CPMU	

Annex 1: Implementation Action Plan

Step	Actions	Responsible	Timeline
1	Request of activation: The MoF will send a letter requesting the activation of the CERC to WB. This letter shall include the description of the event, the needs, indication of funding source and amount to be reallocated, and list of activities to be carried out in response to the emergency.	MoF	

2	WB review and no-objection: The World Bank upon positive review of activation request grants no-objection.	WB	
3	Reallocation and Payment: The World Bank processes the reallocation of funds from Unallocated amount to CERC and processes withdrawal application for payment.	WB	
4	Implementation of Emergency Activities: Minregion starts the implementation of approved emergency activities.	Minregion	
	<i>a. Procurement</i>		
	<i>b. Financial Management and Progress Reporting</i> as defined in the Loan Agreement and Project's Operations Manual		
	<i>c. Monitoring and Evaluation:</i> An accounting firm will audit the financial transactions, financial management systems and financial statements of all project-financed activities.		
5	Final reporting: a final narrative and financial completion report will be prepared once all CERC and overall project activities are completed.	Minregion	

Annex 2: Simplified Procurement Plan for CERC Component

No.	Component/Contract	Contract Number	Proc. Method	Review by the Bank Post/Prior	Estimated Cost, USD	Contract value, USD	REOI, TOR, RFP submitted to the Bank	RFP / EOI Issued	Submission of Proposals	Contract Signing	Contract Completion (final payment)
1.	Zhytomyr City Territorial Community				2,116,683.00						
1.1.	Procurement of vehicle for trenchless rehabilitation (restoration) of engineering networks in the city of Zhytomyr	ZHT-DC-01	DC	Post	916,683.00		November.2022	November.2022	December.2022	December.2022	February.2023
1.2.	Procurement of 35 Water pump station equipment (including pumps, Control cabinets based on frequency converters and generator)	ZHT-DC-02	DC	Post	730,000.00		November.2022	November.2022	December.2022	December.2022	February.2023
1.3.	Procurement of 2 Water pump station equipment (including pumps and Control cabinets based on frequency converters)	ZHT-DC-03	DC	Post	70,000.00		November.2022	November.2022	December.2022	December.2022	February.2023
1.4.	Procurement of 24 Wastewater pump station equipment (including pumps, Control cabinets based on frequency converters and generator)	ZHT-DC-04	DC	Post	336,000.00		November.2022	November.2022	December.2022	December.2022	February.2023
1.5.	Procurement of 5 Wastewater pump station equipment (including Control cabinets based on frequency converters and generator)	ZHT-DC-05	DC	Post	64,000.00		November.2022	November.2022	December.2022	December.2022	February.2023
2.	Brovary City Territorial Community				3,138,275.00						
2.1.	Sanation of self-flow collector (DU-1000) with replacement of	BRVR-DC-01	DC	Post	3,138,275.00		November.2022	November.2022	November.2022	December.2022	January.2023

	concrete wells (From Sichovykh Striltsiv str. to PS №3 on Independence blvd. 53/1 in the city of Brovary - 1051 metres).										
3.	Mykolaiv city territorial community				10,633,131.00						
3.1.	Procurement of solid waste trucks for the city of Mykolaiv	MYK-DC-01	DC	Post	1,412,986.00		November.2022	November.2022	December.2022	December.2022	February.2023
3.2.	Procurement of special vehicles for the waste cleaning and waste management in the city of Mykolaiv	MYK-DC-02	DC	Post	2,766,450.00		November.2022	December.2022	December.2022	January.2023	April.2023
3.3.	Procurement of special vehicles for MCE “Mykolaivvodokanal”	MYK-DC-03	DC	Post	3,227,347.00		November.2022	November.2022	December.2022	December.2022	February.2023
3.4.	Procurement of steel pipes for MCE “Mykolaivvodokanal”	MYK-DC-04	DC	Post	1,174,045.00		November.2022	November.2022	December.2022	December.2022	February.2023
3.5.	Procurement of equipment and materials for the provision of sustainable operation of the critical infrastructure by eliminating the consequences of warfare actions in the city of Mykolaiv	MYK-DC-05	DC	Post	1,266,114.00		November.2022	November.2022	December.2022	December.2022	February.2023
3.6.	Procurement of pumps for MCE “Mykolaivvodokanal”	MYK-DC-06	DC	Post	786,189.00		November.2022	November.2022	December.2022	December.2022	March.2023
4.	Kremenchuk City Territorial Community				1,937,846.00						
4.1.	Procurement of vehicle for trenchless rehabilitation (restoration) of engineering networks in the city of Kremenchuk	KRK-DC-01	DC	Post	916,683.00		November.2022	November.2022	December.2022	December.2022	February.2023
4.2.	Procurement of autonomous (backup) power supply source (900 kW and 420 kW) for water treatment plant (WTP) where the	KRK - DC-02	DC	Post	323,535.00		November.2022	November.2022	December.2022	January.2023	March.2023

	potable water and fire fighting water supply of the city of Kremenchuk, including installation services										
4.3.	Procurement of mobile potable water preparation units with capacities of 5-35 m3 per day to be locally placed in case of emergency situations in the territory of Kremenchuk Territorial Community (14 units)	KRK - DC-03	DC	Post	351,190.00		December.2022	December.2022	January.2023	January.2023	March.2023
4.4.	Procurement of 5m3 tank truck for food liquids (potable water) in the city of Kremenchuk	KRK - DC-04	DC	Post	122,715.00		November.2022	November.2022	December.2022	December.2022	May.2023
4.5.	Procurement of valves for the Waste Water Treatment Plant networks in the city of Kremenchuk	KRK - DC-05	DC	Post	223,723.00		December.2022	December.2022	January.2023	January.2023	March.2023
5.	Kharkiv City Territorial Community				39,003,315.00						
5.1.	Procurement of pre-insulated PE-Xa type pipes with structured polyethylene for the complex replacement of hot water pipelines in the city of Kharkiv	KHTM-DC-01	DC	Post	3,076,314.00		November.2022	November.2022	December.2022	December.2022	May.2023
5.2.	Procurement of steel pre-insulated pipes with fittings for the complex replacement of heating pipelines in the city of Kharkiv	KHTM-DC-02	DC	Post	9,571,450.00		November.2022	November.2022	December.2022	December.2022	May.2023
5.3.	Procurement of pre-insulated PE-Xa type pipes with structured polyethylene for the complex replacement of heating pipelines pipelines in the city of Kharkiv	KHTM-DC-03	DC	Post	3,281,319.00		November.2022	November.2022	December.2022	December.2022	February.2023
5.4.	Procurement of steel pipes with fittings for the complex	KHTM-DC-04	DC	Post	717,515.00		November.2022	November.2022	December.2022	December.2022	March.2023

	replacement of heating pipelines in the city of Kharkiv										
5.5.	Procurement of boiler pipelines in the city of Kharkiv	KHTM-DC-05	DC	Post	1,025,021.00		November.2022	November.2022	December.2022	December.2022	February.2023
5.6.	Procurement of compensators of pipelines in the city of Kharkiv	KHTM-DC-06	DC	Post	1,350,028.00		November.2022	November.2022	December.2022	December.2022	April.2023
5.7.	Procurement of valves with fittings in the city of Kharkiv	KHTM-DC-07	DC	Post	2,905,061.00		December.2022	December.2022	January.2023	January.2023	June.2023
5.8.	Procurement of boilers and boiler equipment in the city of Kharkiv	KHTM-DC-08	DC	Post	7,715,161.00		November.2022	November.2022	December.2022	December.2022	April.2023
5.9.	Procurement of pump units with control cabinets in the city of Kharkiv	KHTM-DC-09	DC	Post	3,145,066.00		December.2022	December.2022	January.2023	January.2023	June.2023
5.10.	Procurement of variable-frequency drivers for pumps' engines in the city of Kharkiv	KHTM-DC-10	DC	Post	1,875,039.00		November.2022	November.2022	December.2022	December.2022	May.2023
5.11.	Procurement of specialized machinery in the city of Kharkiv	KHTM-DC-11	DC	Post	3,247,568.00		November.2022	November.2022	December.2022	December.2022	February.2023
5.12.	Procurement of thermal insulation for pipelines in the city of Kharkiv	KHTM-DC-12	DC	Post	683,764.00		November.2022	November.2022	December.2022	December.2022	February.2023
5.13.	Procurement of electrical equipment and cable products in the city of Kharkiv	KHTM-DC-13	DC	Post	410,009.00		November.2022	November.2022	December.2022	December.2022	May.2023
TOTAL:					56,829,250.00						