

PURCHASE ORDER

Supplier:

Dina Cociug SRL
 Attention: Bezele Viorel, Administrator
 Address: str. Dacia bd., 38/7
 Chisinau, Republic of Moldova
 Registration#: 1002600032981

Ship To: Technical University of Moldova, Block 1

Address: bd. Ștefan cel Mare, 168, Chișinău,
 Moldova, MD-2004
 Attention: Dorin Varmari
 Procurement Manager
 Email: dvarmari@chemonics.md
 Mob: +373 68888020

Purchase Order Number: PO-2023-049
Effective Date: May 15, 2023
Delivery Due Date: September 30, 2023
Delivery Incoterm: DDU Destination
Payment Terms: See Attachment 1, Section III
UEI Number: DY35K8J4X187

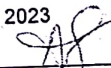
Bill To: Chemonics International INC.
Washington, Sucursala Chisinau/
Moldova Future Technology Activities
 Attention: Dorin Varmari
 Procurement Manager
 Email: ftaprocurement@chemonics.md
 Mob: +373 68888020

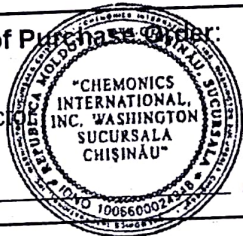
Line Item	Description	Unit	Qty	Unit Price (EUR)	Total Price (EUR)
1	Ventilation and air conditioning system for the Cyber Security Academy, festive room and classroom 101 established within Technical University of Moldova, Block 1, including delivery, adjustment, and configuration. (see Attachment 2) *no installation services included	pcs	1	100,924.00	100,924.00
Subtotal:					100,924.00
Total Purchase Order Amount (EUR) VAT 0%:					100,924.00

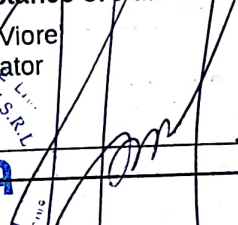
Additional Notes:

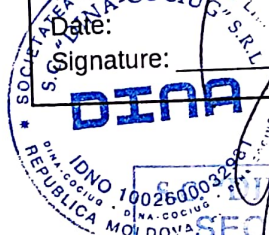
- This purchase order is issued by **Chemonics International INC. Washington, Sucursala Chisinau** on behalf of the **USAID Moldova Future Technologies Activity, USAID Contract No 72011721C00001**. This project is being implemented by Chemonics in the Cooperating Country of **Moldova**.
- The authorized USAID Geographic Code for this purchase order is Geographic Code **110 and 935, 937**.
- All electrical commodities must operate on the following voltage: **220V, 50Hz**
- The terms and conditions (Attachment 1) and the technical specifications (Attachment 2) found in the following pages are incorporated into and form an integral part of this purchase order.
- Any representations and certifications submitted resulting in award of this Purchase Order (PO) are hereby incorporated either in full text or by reference, and any updated representations and certifications submitted thereafter are incorporated by reference and made a part of this PO with the same force and effect as if they were incorporated by full text. By signing this PO, the Supplier hereby certifies that as of the time of award of this PO: (1) the Supplier, including its principals, is not debarred, suspended or proposed for debarment or declared ineligible for award by any U.S. Federal agency; (2) no Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of the U.S. Congress, an officer or employee of the U.S. Congress, or an employee of a member of the U.S. Congress on its behalf in connection with awarding the contract of this PO; and (3) no changes have occurred to any other representations and certifications made by the Supplier resulting in award of this PO. The Supplier agrees to promptly notify Chemonics in writing of any changes occurring at any time during performance of this PO to any representations and certifications submitted by the Supplier.

Chemonics Authorization of Purchase Order:

Name: Anna Skinner
 Title: Program Services Director
 Date: May 17, 2023
 Signature: 


Supplier Acceptance of Purchase Order:

Name: Bezele Viorel
 Title: Administrator
 Date:
 Signature: 



Attachment 1: Chemonics International Purchase Order Standard Terms and Conditions

I. **DEFINITIONS:** The following definitions apply to this purchase order and any related correspondence:

- "Chemonics" means Chemonics International INC. Washington, Sucursala Chisinau
- "Cooperating Country" means the country(ies), identified on the purchase order cover page, where the equipment will be used.
- "Delivery Incoterm" refers to the international commerce term (Incoterm) established by the International Chamber of Commerce, www.iccwbo.org
- "FAR" means the United States Federal Acquisition Regulation.
- "Geographic Code" means the country(ies) or area(s) assigned by USAID to a certain three digit code, as defined in United States Code of Federal Regulations (CFR) in 22 CFR §228, available at <https://www.ecfr.gov/cgi-bin/text-idx?SID=63765683c15405e0afd859f0dda75784&mc=true&node=pt22.1.228&rgn=div5>
- "Supplier" means the individual or firm, identified on the purchase order cover page, supplying the goods and/or services under this order
- "U.S." or "United States" means the United States of America, including any State(s) of the United States, the District of Columbia, and areas of U.S.-associated sovereignty, including commonwealths, territories and possessions.
- "USAID" means the United States Agency for International Development.

II. **CONTRACT:** This purchase order (PO), when properly completed and signed by both parties, is the only form which will be recognized by Chemonics and will constitute the fixed-price contract. No terms stated by the Supplier in accepting or acknowledging this order shall be binding on Chemonics unless accepted in writing by Chemonics. The purchase order may not be assigned or delegated, in whole or in part, by the Supplier without the written consent of Chemonics; absent such written consent, any assignment is void.

III. **PAYMENT:** Payment shall be made—via wire transfer—according to the currency identified on the purchase order cover page for items that have been delivered to the delivery destination(s) set forth in the purchase order and that have been inspected and accepted by Chemonics. The Supplier shall submit an original invoice (or electronic invoice, if authorized) that includes, at a minimum: (a) name and address of the Supplier; (b) invoice date and number; (c) PO number; (d) description, quantity, unit of measure, unit price and extended price of the items delivered. Payment will only be issued to the Supplier identified on the purchase order cover page; payment will not be issued to a third party. Payment will be made in MDL based on the official exchange rate of the National Bank of Moldova on the date of payment, paid to the account specified in the Supplier's invoice. Payment shall be made in two installments, as follows:

- Advance payment of 18,400 EUR (18,23 %) paid within 5 business days upon purchase order signing
- Final payment of 82,524.00 EUR (81,77 %) paid no later than 30 days upon delivery

IV. **ELIGIBILITY OF COMMODITIES AND SUPPLIERS:** The Supplier shall adhere to the following in carrying out this purchase order:

- All commodities must be new and unused unless otherwise authorized in writing by Chemonics.
- All electrical commodities must operate on the voltage and frequency identified on the purchase order cover page. Transformers will not be accepted. Auto-sensing, multi-voltage power supplies are preferred over single-voltage items.
- All commodities supplied under this order must comply with the authorized USAID Geographic Code identified on the purchase order cover page in accordance with 22 CFR §228 ("Rules for Procurement of Commodities and Services Financed by USAID" available at <https://www.ecfr.gov/cgi-bin/text-idx?SID=63765683c15405e0afd859f0dda75784&mc=true&node=pt22.1.228&rgn=div5>), unless otherwise indicated in writing by Chemonics.
- No commodities made in—or containing a component made in—Cuba, Iran, North Korea, or Syria may be supplied.
- The Supplier must be an organization incorporated or legally organized under the laws of—or (if an individual) a citizen or legal resident of—a country in the USAID Geographic Code identified on the PO cover page. The Supplier must also be meet the nationality requirements of 22 CFR 228.
- No commodities or services shall be eligible for payment under this order if provided by a vendor included on any list of suspended, debarred, or ineligible bidders used by USAID or the United States Government.

V. **ELIGIBILITY OF TRANSPORTATION SERVICES:** Any ocean or any international air shipments financed by this purchase order must be made on carriers and vessels under flag registry of the United States. If such carriers or vessels are not available, the Supplier shall notify Chemonics prior to shipment in order to request further written instructions. Failure to use such U.S. flag carriers/vessels without prior written authorization from Chemonics shall be grounds for unilateral termination for default of the purchase order by Chemonics, with no payment being issued for any shipping/transportation costs.

VI. **WARRANTY:** The Supplier warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this PO. All equipment supplied under this order must be covered by the manufacturer's standard international warranty which shall, at a minimum, protect Chemonics from any loss due to defective workmanship, material, and parts, for 24 (twenty four) months (unless otherwise stated on the purchase order document) after the equipment is delivered to and accepted by Chemonics. In the event that the warranty is breached, Chemonics may require, and the Supplier is bound, to remedy all defects and faults, including both workmanship and materials within a reasonable time of notification. The Supplier shall be responsible for all necessary domestic transportation charges required to ship the defective commodities to the Supplier and replacement commodities to Chemonics. In the event of the Supplier's refusal, failure, or inability to remedy such discrepancies within a reasonable time of notification, Chemonics may remedy such defects on its own and claim the reasonable cost of such remedial action from the Supplier. At the time that any commodity delivered under this PO is transferred from Chemonics to the Government of the Cooperating Country or another entity within the Cooperating Country, all rights to warranty support and service shall be transferred with the commodity to that entity's end-user.

VII. **INSPECTION AND ACCEPTANCE:** The Supplier shall only tender for acceptance those items that conform to the requirements of this PO. Chemonics reserves the right to inspect or test any supplies or services that have been tendered for acceptance. Chemonics may require repair or replacement of nonconforming commodities or re-performance of nonconforming services at no increase in purchase order price. If repair/replacement or re-performance will not correct the defects or is not possible, Chemonics may seek an equitable price reduction or adequate consideration for acceptance of nonconforming commodities or services. Chemonics must exercise its post-acceptance rights within a reasonable time after the defect was discovered or should have been discovered.

VIII. **GOVERNING LAW AND RESOLUTION OF DISPUTES:**

- Governing Law.** This purchase order, including any disputes related thereto, shall be governed by the laws of the District of Columbia, U.S.
- Disputes between the Parties.** The following procedures shall govern the resolution of any controversy, dispute or claim between or among the "Parties," arising out of the interpretation, performance, breach or alleged breach of this purchase order ("Dispute").
 - Negotiation.** The Parties shall promptly attempt to resolve any Dispute by negotiation in the normal course of business. If, after good faith efforts, the Dispute is not resolved, either Party may request in writing that the Dispute be resolved via Executive Consultation pursuant to subparagraph (B)(2) below.
 - Executive Consultation.** For Disputes submitted to Executive Consultation, each Party shall designate a senior company official with authority and responsibility for attempting to resolve the matter. The Party initiating the claim shall provide, in addition to documents supporting the claim, a brief summary of the claim, its perception of the positions of the Parties and any perceived barriers to settlement of the case. Within 30 calendar days after delivery of the claim summary, the Parties shall meet and attempt to resolve the Dispute. If the Dispute is not resolved within 45 days from submission of the claim summary, or such other amount of time as agreed between the Parties, the claiming Party may proceed under subparagraph (3) below.
 - Arbitration.** Any controversy or claim between the Parties arising out of or relating to this purchase order, or the breach thereof, that has not been resolved by Executive Consultation, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Arbitration Rules, including the Optional Rules for Emergency Measures of Protection, unless otherwise provided herein. The arbitrators shall not be empowered to award damages in excess of compensatory damages and each Party expressly waives and foregoes any right to punitive, exemplary, or similar damages. Each Party will bear the cost of its own Attorney-Fees. The Arbitration shall be in Washington, D.C., unless otherwise agreed between the Parties.
- Obligation to perform work.** Supplier shall diligently proceed with the performance of work pending final resolution of any Dispute.
- The Supplier acknowledges and agrees that it has no direct action against the U.S. Government or USAID for any claims arising under this PO.

GlobalOMS ID: 878.9, 25 February 2021

IX. **INDEMNITY AND SUPPLIER WAIVER OF BENEFITS:** The Supplier agrees to indemnify and save harmless Chemonics and its officers, employees, and agents from and against any and all claims and liability, loss, expenses, suits, damages, judgments, demands, and costs (including reasonable legal and professional fees and expenses) arising out of the Supplier's provision of goods or services under this purchase order.

X. **EXCUSABLE DELAYS:** The Supplier shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Supplier and without its fault or negligence such as, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Supplier shall notify Chemonics in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to Chemonics of the cessation of such occurrence.

XI. **CHANGES:** Chemonics may at any time, by written order, and without notice to the sureties, make changes within the general scope of this purchase order. If any such changes cause an increase or decrease in the cost, or the time required for the performance, of any part of the work under this purchase order, an equitable adjustment shall be made in the purchase order price or delivery schedule, or both, and the purchase order shall be modified in writing accordingly. Any claim by the Supplier for adjustment under this purchase order must be asserted within thirty (30) days from the date of receipt by the Supplier of the modification or change.

XII. **TERMINATION FOR CONVENIENCE:** Chemonics reserves the right to terminate this purchase order, or any part hereof, for its sole convenience. In the event of such termination, the Supplier shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this PO, the Supplier shall be paid a percentage of the PO price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges the Supplier can demonstrate to the satisfaction of Chemonics using its standard record keeping system, have resulted from the termination. The Supplier shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give Chemonics any right to audit the Supplier's records. The Supplier shall not be paid for any work performed or costs incurred which reasonably could have been avoided.

XIII. **TERMINATION FOR CAUSE:** Chemonics may terminate this purchase order, or any part hereof, for cause in the event of any default by the Supplier, or if the Supplier fails to comply with any PO terms and conditions, or fails to provide Chemonics, upon request, with adequate assurances of future performance. In the event of termination for cause, Chemonics shall not be liable to the Supplier for any amount for supplies or services not accepted, and the Supplier shall be liable to Chemonics for any and all rights and remedies provided by law. If it is determined that Chemonics improperly terminated this PO for default, such termination shall be deemed a termination for convenience.

XIV. **TITLE:** Unless specified elsewhere in this contract, title to items furnished under this contract shall pass to Chemonics upon acceptance, regardless of when or where Chemonics takes physical possession. Chemonics retains the right to transfer title at any time to any organization or entity in the Cooperating Country. At the time that any items supplied under this purchase order are transferred any entity within the Cooperating Country, all rights to warranty support and service provided to Chemonics under this purchase order shall be transferred with the items to the new end-user. The Supplier shall continue to honor all warranty support and services for the duration of the warranty period.

XV. **RISK OF LOSS:** Unless the purchase order specifically provides otherwise, risk of loss or damage to the items provided under this purchase order shall remain with the Supplier until, and shall pass to Chemonics upon delivery of the items to Chemonics or Chemonics' authorized agent at the delivery location.

XVI. **WORKER'S COMPENSATION INSURANCE:** If the order involves performance of incidental services (installation of USAID-financed equipment or the training of personnel in the maintenance, operation, and use of such equipment) outside of the United States, then before commencing performance under this purchase order the Supplier shall maintain coverage through worker's compensation insurance or security covering each employee to the extent required by the Defense Base Act (DBA) of the United States (42 U.S.C. 1651) but in any event equivalent to coverage required by law or custom in the location where the Supplier's employee is performing services.

XVII. **TAXES:** The agreement under which this purchase order is financed does not permit the financing of any taxes, VAT, tariffs, duties, or other levies imposed by any laws in effect in the Cooperating Country. No such Cooperating Country taxes, VAT, charges, tariffs, duties or levies will be paid under this purchase order.

XVIII. **SET-OFF CLAUSE:** Chemonics reserves the right of set-off against amounts payable to the Supplier under this purchase order or any other agreement the amount of any claim or refunds Chemonics may have against the Supplier.

XIX. **COMPLIANCE WITH APPLICABLE LAWS AND STANDARDS:** The Supplier shall comply with all applicable laws, ordinances, codes, regulations, and other authoritative rules of the United States and of the Cooperating Country and their political subdivisions and with the standards of relevant licensing boards and professional associations.

XX. **TERRORIST FINANCING PROHIBITION:** The Supplier is reminded that U.S. Executive Orders and U.S. law prohibits transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of the Supplier to ensure compliance with these Executive Orders and laws. This provision must be included in all subcontracts issued under this purchase order.

XXI. **ANTI-CORRUPTION AND ANTI-KICKBACK:** No offer, payment, consideration, or benefit of any kind which constitutes an illegal or corrupt practice shall be made, either directly or indirectly, as an inducement or reward for the award of this purchase order. Any such practice will be grounds for canceling the award of this order and for such other actions, civil and/or criminal, as may be applicable. The Supplier and its employees, whether directly or indirectly engaged in the performance of this purchase order, agree to abide by the terms of The United States Anti-Kickback Act of 1986, which prohibits any person from providing or attempting to provide any kickback; soliciting, accepting, or attempting to accept any kickback; or including, directly or indirectly, the amount of any kickback in the contract price charged by the Supplier to Chemonics.

XXII. **COMPLIANCE WITH U.S. EXPORT LAWS:** In furtherance of this purchase order, the Supplier warrants and agrees to comply with all U.S. laws and regulations governing its international activities, including but not limited to: (i) the export or re-export of goods, technology, and services under the International Traffic in Arms Regulations, 22 C.F.R. Parts 120 et seq.; (ii) the Export Administration Regulations, 15 C.F.R. Parts 730 et seq.; (iii) the Foreign Asset Control Regulations, 31 C.F.R. Chapter V; and (iv) other applicable U.S. laws and regulations. The Supplier undertakes to determine any export license requirements, to obtain any export license or other official authorization, and to carry out any customs formalities for the export of goods or services. The Supplier agrees to cooperate in providing any reports or other documentation related to export compliance requested by Chemonics. The Supplier agrees to indemnify and defend Chemonics for any penalties, fines, or other regulatory action taken against Chemonics as a result of the Supplier's non-compliance with this provision.

XXIII. **CLAUSES INCORPORATED BY REFERENCE:** This PO includes the appropriate flow-down clauses as required by the Federal Acquisition Regulation (FAR). This purchase order incorporates the following clauses of the United States Federal Acquisition Regulation (48 CFR, Chapter 1) by reference, with the same force and effect as if they were given in full text. The full text of a clause may be accessed electronically at this address: <https://www.acquisition.gov/?q=browsefar>. It is understood and agreed that the Supplier may be obligated by and to Chemonics for any documentation required of Chemonics under these clauses, and that references to the "Contractor" may also refer to the "Supplier". The Supplier hereby agrees to abide by the terms and conditions imposed by these clauses. References in the text of these incorporated clauses to "the Government" or "Contracting Officer" may, depending on their context, refer to "Chemonics," and references to "the Contractor" may refer to "the Supplier."

FAR Clause Number	FAR Clause Title
52.203-13	Contractor Code of Business Ethics and Conduct (Oct 2015)
52.203-17	Contractor Employee Whistleblower Rights and Requirement To Inform Employees of Whistleblower Rights (Apr 2014)
52.204-23	Prohibition on Contracting for Hardware, Software and Services Developed by Kaspersky Lab and Other Covered Entities (Jul 2018)
52.204-25	Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)
52.222-50	Combating Trafficking in Persons (Oct 2020)
52.225-13	Restrictions on Certain Foreign Purchases (Jun 2008)

GlobalQMS ID: 87893, 25 February 2021

Attachment 2: Technical Specifications

Система вентиляции и кондиционирования

№	Оборудование	Единица изм.	Цена за ед. с НДС 0%, €	Кол-во	Сумма за ед. с НДС 0%, €
1	2	3	4	5	6
	Актовый зал система AR1-AR2				
1	Прочно-вытяжная установка с рекуперацией тепла Vento 90-50, Remak (Чехия) В комплектации : • Вентилятор П — 5000 м3/час, Pсвоб.=300 Pa - 1шт • Вентилятор В — 5000 м3/час, Pсвоб.= 450 Pa - 1шт • Рекуператор с байпасом КПД = 80% - 1шт • Фреоновый испаритель Qx=36 кВт, Qo=28кВт. - 1шт • Фильтр на приток класса F7 - 1шт • Фильтр на вытяжку класс F5 - 1шт • Шумоглушитель — 2 шт. • Заслонка с приводом - 2шт. • Наружная решетка- 2шт. • Гибкие вставки — 6шт. • Автоматика — 1 к-т	К-кт	15366	2	30732
2	Компрессорно-конденсаторный блок SDV5-900EAI, Sinclair (Англия) • Qx=90 кВт, • Qo=90 кВт • Входная мощность: холод — 14,7 кВт • Входная мощность: тепло - 12,2 кВт • Рабочий режим: зима - 25° С • Рабочий режим: лето +48° С	шт.	19081	1	19081
3	Фреон R410A	кг.	18,7	8	149,6
4	Фреопровод в изоляции Ø16,0/28,0	м	43,2	5	216
5	Фреопровод в изоляции Ø16,0/31,8	м	43,4	10	434
6	Фреопровод в изоляции Ø22,2/38,1	м	62,8	15	942
7	Труба дренаж Ø32	м	1,6	30	48
8	Рефнет.Ø16,0/28,0 — Ø16,0/31,8	компл.	191,6	2	383,2
9	Рефнет Ø16,0/31,8 — Ø22,2/38,1	компл.	191,6	1	191,6
10	Центральный регулятор Sinclair, CCM-180A	шт.	1090,8	1	1090,8
11	Насос дренажный	шт.	129	2	258
12	Диффузор КА 350х350	шт.	47,3	18	851,4
13	Решетка вент. TM100 450х200.	шт.	15,2	18	273,6
14	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	430	9675
15	Изоляция минвата 50мм	м2	3,8	495	1881
17	Металлический каркас под оборудование	К-кт	324	2	648
18	Кронштейн усиленный	К-кт	25	1	25
19	Фланец	шт.	5,1	315	1606,5
21	Вешка	час	33,5	6	201
	Транспортные расходы				620
	Крепежные материалы				820
	Инструментальная проверка и регулировка систем вентиляции, с составлением паспортов				912
	Автоматизация системы вентиляции и пуско-наладочные работы				2790
	ИТОГО в евро, НДС 0%				73829,7
	ИТОГО в евро со скидкой, НДС 0%				64970

В стоимость не входят:

1.Электроснабжение

2.Проект системы вентиляции и кондиционирования

№	Оборудование	Единица изм.	Цена за ед. с НДС 0%, €	Кол-во	Сумма за ед. с НДС 0%, €
1	2	3	4	5	6
Класс система R3					
1	Вентилятор K 315 L, Systemair Швеция	шт.	321	1	321
2	Гибкая вставка 315	шт.	13,3	2	26,6
3	Заслонка с электроприводом 315	м	249	1	249
4	Фильтр G4	К-кт	65	1	65
5	Электронагреватель 315, л=12кВт	шт.	430	1	430
6	Шумоглушитель 315, л-900	шт.	93,2	1	93,2
7	Решетка вент. TM100 1000x200	шт.	38,2	1	38,2
8	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	10	225
9	Изоляция минвата фольгированная 50мм, ISOVER	м2	4,1	9	36,9
10	Фланец	шт.	5,1	10	51
Класс система A3					
1	Вентилятор K 315 L, Systemair Швеция	шт.	321	1	321
2	Гибкая вставка 315	шт.	13,3	2	26,6
3	Заслонка с электроприводом 315	м	249	1	249
4	Фильтр G4	К-кт	65	1	65
5	Шумоглушитель 315, л-900	шт.	93,2	1	93,2
6	Решетка вент. TM100 1000x200	шт.	38,2	1	38,2
7	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	12	270
8	Изоляция минвата фольгированная 50мм, ISOVER	м2	4,1	11	45,1
9	Защитный кожух из оцинкованной стали 0,7 мм	м2	22,5	8	180
10	Фланец	шт.	5,1	10	51
11	Кронштейн	К-кт	16,6	1	16,6
Класс система C3-4					
1	Кондиционер напольного типа Sinclair, ASF-12BI/ASGE-12BI • Qx=3,5кВт, Qo=4,0кВт • Рабочий режим: зима — 20° C • Рабочий режим: лето +48° C • Входная мощность: холод — 0,95 кВт • Входная мощность: тепло — 1,05 кВт	шт.	1110	2	2220
2	Коммуникационный модуль SCMI-01.4	шт.	496,6	2	993,2
3	Фреон R 32	кг.	18,7	1	18,7
4	Фреоновод в изоляции Ø6,5/9,4	м	9,9	25	247,5
5	Труба дренаж Ø16	м	0,7	25	17,5
6	Кабель ПВС	м	1,3	25	32,5
7	Кронштейн	К-кт	25	2	50
8	Обмотка белая	рул.	3,6	5	18
Система CR5 подвальное помещение (правое крыло)					
1	Канальный кондиционер Sinclair, ASD-60BI/ASGE-60BI-3 • Qx=16кВт, Qo=17 кВт • Рабочий режим: зима — 20° C • Рабочий режим: лето +48° C • Входная мощность: холод — 5,45 кВт • Входная мощность: тепло — 5,4 кВт	шт.	3500	1	3500
2	Фреоновод в изоляции Ø9,5/15,9	м	15	10	150
3	Труба дренаж Ø25	м	1,08	10	10,8
4	Обмотка белая	шт.	3,6	2	7,2
5	Кабель ПВС 5*2,5	м	2,08	10	20,8
6	Кронштейн усиленный	К-кт	25,8	1	25,8
7	Заслонка с электроприводом LSKF 50-25, Remak (Чехия)	шт.	282	1	282
8	Наружная решетка PZ 50-25, Remak (Чехия)	шт.	31	1	31
9	Дроссель-клапан 250x200 (сервопривод в раздел автоматики)	шт.	19,2	2	38,4
10	Дроссель-клапан 600x200 (сервопривод в раздел автоматики)	шт.	38,9	2	77,8
11	Дроссель-клапан Ø200 (ручной)	шт.	15,4	6	92,4
12	Дроссель-клапан Ø160 (ручной)	шт.	13,6	1	13,6
13	Диффузор КА 350x350	шт.	47,3	6	283,8
14	Диффузор КА 300x300	шт.	41,1	1	41,1
15	Решетка TM100 400x200	шт.	19,6	3	58,8
16	Решетка TM100 450x100	шт.	21	1	21
17	Решетка TM100 300x100	шт.	14,8	1	14,8
18	Воздуховод из оцинкованной стали 0,5мм	м2	20	7,6	152
19	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	100	2250
20	Изоляция каучук самоклеяка 6мм	м2	6,8	110	748
21	Изоляция минвата 50мм	м2	3,8	10	38

22	Фланец	шт.	5,1	50	255
23	Фреон R32	кг.	18,7	1	18,7
Система А5 подвальное помещение (правое крыло)					
1	Вентилятор К 315 L, Systemair Швеция	шт.	321	1	321
2	Гибкая вставка 315	шт.	13,3	2	26,6
3	Заслонка с электроприводом 315	м	249	1	249
4	Шумоглушитель 315, л-900	шт.	93,2	1	93,2
5	Решетка вент. TM100 400x150	шт.	21	3	63
6	Решетка вент. TM100 400x200	шт.	19,6	1	19,6
7	Решетка вент. TM100 100x100	шт.	13,6	1	13,6
8	Воздуховод из оцинкованной стали 0,5мм	м2	20	6,3	126
9	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	28	630
10	Изоляция минвата 50мм	м2	3,8	9	34,2
11	Защитный кожух из оцинкованной стали 0,7 мм	м2	20	6,5	130
12	Кронштейн	К-кт	25	1	25
Система А7 (С-узел)					
1	Вентилятор К 160 XL, Systemair Швеция	шт.	176	1	176
2	Гибкая вставка 160	шт.	6,4	2	12,8
3	Шумоглушитель 160, л-900	шт.	37	1	37
4	Обратный клапан 160	шт.	9,4	1	9,4
5	Анемостат TVOM 160	шт.	11,3	2	22,6
6	Воздуховод из оцинкованной стали 0,5мм	м2	20	12,5	250
7	Изоляция минвата 50мм	м2	3,8	5,4	20,52
8	Защитный кожух из оцинкованной стали 0,55 мм	м2	20	3,5	70
9	Кронштейн	шт.	25	1	25
Система AN9 (котельная)					
1	Дефлектор 250	шт.	98,4	1	98,4
2	Анемостат TVOM 250	шт.	16,8	1	16,8
3	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	15	337,5
4	Изоляция минвата 50мм	м2	4,1	18	73,8
5	Защитный кожух из оцинкованной стали 0,7 мм	м2	22,5	18	405
Система AN10					
1	Дефлектор 125	шт.	78	1	78
2	Анемостат TVOM 125	шт.	13,5	1	13,5
3	Воздуховод из оцинкованной стали 0,5мм	м2	20	6,3	126
4	Изоляция минвата 50мм	м2	3,8	9,3	35,34
5	Защитный кожух из оцинкованной стали 0,5мм	м2	20	5,2	104
Система AN11					
1	Дефлектор 315	шт.	109,4	1	109,4
2	Анемостат TVOM 180	шт.	17,3	2	34,6
3	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	23,3	524,25
4	Изоляция минвата 50мм	м2	3,8	30,6	116,28
5	Защитный кожух из оцинкованной стали 0,7мм	м2	22,5	23,3	524,25
С-узел, коридор-кухня					
1	Электрический конвектор Ensto Beta 1000 B	шт.	69	2	138
3. Проект системы вентиляции и кондиционирования					
1	Канальный кондиционер Sinclair, ASD-60BI/ASGE-60BI-3: • Q _х =16кВт, Q _о = 17 кВт • Рабочий режим: зима — 20° С • Рабочий режим: лето +48 ° С • Входная мощность: холод — 5,45 кВт • Входная мощность: тепло — 5,4 кВт	шт.	3500	1	3500
2	Фреоновый провод в изоляции Ø9,5/ 15,9	м	15	10	150
3	Труба дренаж Ø25	м	1,08	10	10,8
4	Обмотка белая	шт.	3,6	2	7,2
5	Кабель ПВС 5*2,5	м	2,08	10	20,8
6	Кронштейн усиленный	К-кт	25,8	1	25,8
7	Заслонка с электроприводом LSKF 40-20, Remak (Чехия)	шт.	274	1	274
8	Наружная решетка PZ 40-20, Remak (Чехия)	шт.	37	1	37
9	Дроссель-клапан 200x200 (сервопривод в раздел автоматики)	шт.	18,6	3	55,8
10	Дроссель-клапан 200x200 (ручной)	шт.	18,6	1	18,6
11	Дроссель-клапан 200x150 (ручной)	шт.	17,2	1	17,2
12	Диффузор КА 1450x450	шт.	49,1	4	196,4
13	Решетка TM100 400x200	шт.	19,6	4	78,4
14	Решетка TM100 500x200	шт.	21,3	2	42,6
15	Воздуховод из оцинкованной стали 0,5мм	м2	20	13	260
16	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	70,2	1579,5
17	Изоляция каучук самоклеяка 6мм	м2	6,8	85,5	581,4
18	Изоляция минвата фольгированная 50мм	м2	3,9	10	39
19	Фланец	шт.	5,1	40	204

20	Фреон R32	кг.	18,7	1	18,7
Система А6 подвальное помещение (левое крыло)					
1	Вентилятор К 315 L, Systemair Швеция	шт.	321	1	321
2	Гибкая всаска 315	шт.	13,3	2	26,6
3	Заслонка с электроприводом 315	м	249	1	249
4	Шумоглушитель 315, л-900	шт.	93,2	1	93,2
5	Решетка вент. TM100 100x100	шт.	8,3	1	8,3
6	Решетка вент. TM100 300x100	шт.	14,8	1	14,8
7	Решетка вент. TM100 400x100	шт.	18,3	1	18,3
8	Решетка вент. TM100 450x100	шт.	21	1	21
9	Анемостат TVOM 125	шт.	9,1	1	9,1
10	Воздуховод из оцинкованной стали 0,5мм	м2	20	9,5	190
11	Воздуховод из оцинкованной стали 0,7мм	м2	22,5	25,4	571,5
12	Изоляция минвата 50мм	м2	3,8	7,2	27,36
13	Защитный кожух из оцинкованной стали 0,7 мм	м2	22,5	5,2	117
14	Кронштейн	К-кт	25	1	25
Система А8 (С-узел)					
1	Вентилятор К 160 XL, Systemair Швеция	шт.	176	1	176
2	Гибкая всаска 160	шт.	6,4	2	12,8
3	Шумоглушитель 160, л-900	шт.	37	1	37
4	Обратный клапан 160	шт.	9,4	1	9,4
5	Анемостат TVOM 160	шт.	11,3	2	22,6
6	Воздуховод из оцинкованной стали 0,5мм	м2	20	9,25	185
7	Изоляция минвата фольгированная 50мм, ISOVER	м2	3,9	4	15,6
8	Защитный кожух из оцинкованной стали 0,55 мм	м2	20	4	80
9	Кронштейн	К-кт	25	1	25
Система AN12					
1	Дефлектор 125	шт.	78	1	78
2	Анемостат TVOM 125	шт.	13,5	1	13,5
3	Воздуховод из оцинкованной стали 0,5мм	м2	20	6,3	126
4	Изоляция минвата 50мм	м2	3,8	9,3	35,34
5	Защитный кожух из оцинкованной стали 0,5мм	м2	20	5,2	104
Система AN13					
1	Дефлектор 160	шт.	88	1	88
2	Анемостат TVOM 160	шт.	13,5	1	13,5
3	Воздуховод из оцинкованной стали 0,5мм	м2	20	8	160
4	Изоляция минвата 50мм	м2	3,8	12,8	48,64
5	Защитный кожух из оцинкованной стали 0,5мм	м2	20	8,9	178
Система AN14					
1	Дефлектор 150	шт.	84	1	84
2	Анемостат TVOM 150	шт.	13,5	1	13,5
3	Воздуховод из оцинкованной стали 0,5мм	м2	20	8	160
4	Изоляция минвата 50мм	м2	3,8	12,8	48,64
5	Защитный кожух из оцинкованной стали 0,5мм	м2	20	8,9	178
Система C7-C8 (Server)					
1	Настенный кондиционер Sinclair, SIH-12BIK/SON-12BIK2 • Qx=3,2кВт, Qo=3,4кВт • Рабочий режим: зима — 15° С • Рабочий режим: лето +43° С • Входная мощность: холод — 1,77 кВт • Входная мощность: тепло — 1,64 кВт	шт.	608	2	1216
2	Фреоновый провод в изоляции Ø6,0/9,5	м	9,9	25	247,5
3	Насос дренажный	шт.	129,2	2	258,4
4	Труба дренаж Ø16	шт.	0,7	25	17,5
5	Обмотка белая	шт.	3,6	5	18
6	Кабель ПВС	м	1,3	25	32,5
7	Кронштейн усиленный	К-кт	25	1	25
8	Фреон R32	кг.	18,7	1	18,7
С-узел					
1	Электрический конвектор Ensto Beta 1000 В	шт.	69	1	69
2	Инструментальная проверка и регулировка систем вентиляции, с составлением паспортов				750
3	Транспортные расходы				620
4	Крепежные материалы				1350
5	Защита от увеличения температуры в серверной, мониторинг температуры на расстоянии				120,8
6	Санузел (B2-B5), программирование по времени вытяжную систему				104,2
7	Система K1 — контроль температуры помещения с сервоприводом в комплекте				1554
8	Система K2 — контроль температуры помещения с сервоприводом в комплекте				2403
9	Автоматизация системы вентиляции и пуско-наладочные работы				1265
ИТОГО в евро, НДС 0%					41047,1
ИТОГО со скидкой в евро, НДС 0%					36121

ИТОГО со скидкой по объекту в евро, НДС 0%	100924
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Монтажные работы и отверстия в стенах

№	Оборудование	Единица изм.	ЦЕНА за ед. с НДС 0%, €	Кол-во	СУММА за ед. с НДС 0%, €
		3	4	5	6
1	Отверстие в стене 600x300	шт.	66,6	6	399,6
2	Отверстие в стене 500x250	шт.	59,3	1	59,3
3	Отверстие в стене 600x200	шт.	62,6	4	250,4
4	Отверстие в стене 300x100	шт.	48,2	1	48,2
5	Отверстие в стене Ø200	шт.	66	1	66
6	Отверстие в стене Ø280	шт.	78	2	156
7	Отверстие в стене Ø100	шт.	45	1	45
8	Отверстие в стене Ø160	шт.	59	1	59
9	Отверстие в стене Ø250	шт.	72	1	72
10	Отверстие в стене Ø125	шт.	51	1	51
11	Отверстие в стене Ø180	шт.	64	2	128
12	Отверстие в стене 200x150	шт.	39,8	1	39,8
13	Отверстие в стене 200x200	шт.	41,3	1	41,3
14	Отверстие в стене 400x200	шт.	52,4	3	157,2
15	Отверстие в стене 500x200	шт.	58,3	2	116,6
16	Отверстие в стене 600x200	шт.	62,6	1	62,6
17	Отверстие в стене Ø100	шт.	45	1	45
18	Отверстие в стене Ø125	шт.	51	1	51
19	Отверстие в стене Ø160	шт.	59	1	59
20	Отверстие в стене Ø200	шт.	66	3	198
21	Отверстие в стене Ø160	шт.	59	2	118
22	Отверстие в стене Ø125	шт.	51	1	51
23	Отверстие в стене Ø160	шт.	59	1	59
24	Отверстие в стене Ø150	шт.	59	1	59
25	Лесса				450
26	Монтажные работы актовъй зал				8290
27	Монтажные работы				8650
	ИТОГО по объекту в евро, НДС 0%				17408
	ИТОГО со скидкой по объекту в евро, НДС 0%				17408

All installation works will be covered by Technical University of Moldova.

The mode of operation of the ventilation, conditioning, heating systems.

• Festive hall
Discharge-suction system with heat recovery, through plate-type recuperator with 80% recovery efficiency, with air heating and cooling battery on R410 refrigerant. The heating battery capacity is 17 kW in total, and at cooling, including the capacity required for room conditioning — 90 kW. The calculated air flow is 40 m3/h for one person. The maximum number of people in the room according to the given task is 250 persons. The conditioning of the room takes place through the ventilation system.

• The classroom:
Discharge-suction system with a calculated flow rate of 40m3/h for one person, the number of people in the room calculated according to the furniture placement plan, 36 people. Conditioning system with cooling capacity, in the amount of 7 kW.

• Basement
The ventilation, conditioning and heating system is carried out through the channel-type conditioning system with 30% pressurized air, ensures the flow of clean air required for one person of 20m3/h according to the NCM standard C. 01.12.2018, Table 7.2.

- Operation and adjustment of the CR5, CR6 systems.
 1. Cooling and heating of rooms;
 2. Air discharge with a mixture of 30% fresh air from the outside;
 3. The intake of stale air takes place through separate systems A5, A6.

- Method of operation:
The machine is started from the control panel of the conditioner;

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1. setting the working regime (conditioning, heating, ventilation).
 2. setting the working temperature of the conditioner
 3. the fan speed is permanently set to maximum.
 4. when the suction fan button is turned on, the valve for mixing fresh air from outside opens.
 5. the temperature in the rooms is adjusted according to the room thermostat located in each room.
- When the desired temperature in the room is requested, the air discharge valve opens, the air recirculation valve closes.
- The discharge and recirculation flaps are adjusted in air proportions necessary to maintain the necessary air exchange, regardless of the thermostat command.
- The adjustment is made at start-up, the adjustment remains permanently unchanged.

Note:

The temperature set on the conditioner control panel must not exceed the temperature set in the room-regime conditioning.

The temperature set on the conditioner control panel must exceed the temperature set in the room--heating mode.

Note: Not taken into account:

- IVC project.
- Smoke exhaust system.
- Power supply.
- The temperature regulation in the basement will work with an error of 5-15%.

