Adresāti: Visām NATO dalībvalstu nacionālajām delegācijām	TO: All National Delegations to NATO
NATO Resursu birojam	CC:NATO Office of Resources Management and Implementation Branch
Priekšmets: Paziņojums par Paplašinātās iepirkuma procedūras veikšanu Latvijā	Subject: Notification of Intent to Invite National Competitive Bids Plus (NCB+) for the project in Latvia
 VISPĀRĪGIE NOTEIKUMI 1.1 Šis dokuments ir oficiāls paziņojums par Paplašināto nacionālo iepirkumu procedūru (NCB+): "Ēka un inženierbūvju izbūve "Mežaine", Raņku pag., Kuldīgas nov.,1.kārta (drošības krīzes apstākļos)" VAMOIC 2024/124 (turpmāk – Iepirkums), kas tiks īstenots Latvijā. 	 GENERAL This document is the official announcement of the National Competitive Bidding Plus (NCB+) (hereinafter - Bidding procedure) for the project: "Construction of buildings and engineering structures in the facility "Mežaine" in Ranku parish, Kuldīga district, Phase 1 (in security crises" (hereinafter - Project) No.VAMOIC 2024/124, that will be implemented in Latvia.
 1.2. Šī Projekta īstenošana ir apstiprināta ar NATO Investīciju komitejas 2023.gada 10.februāra lēmumu Nr. AC/4- DS(2022)0025 (INV). 	1.2. The authorization for the execution of the Project has been granted by the Investment Committee decision No. AC/4- DS(2022)0025 (INV) dated 10 th February 2023.
 1.3. lepirkuma rīkotājs ir Latvijas Republikas Aizsardzības ministrijas padotības iestāde - Valsts aizsardzības militāro objektu un iepirkumu centrs (turpmāk – Centrs). 	1.3. The organizer of the Bid is a subordinate institution of the Ministry of Defence of Republic of Latvia – The State Centre for Defence Military Sites and Procurement (hereinafter - Centre).
1.4. Ar šo paziņojumu Centrs vēlas nodrošināt, lai visu NATO dalībvalstu atbilstošie uzņēmumi būtu informēti un uzaicināti piedalīties lepirkumā.	1.4. With this notification the Centre would like to ensure that eligible Bidders from any NATO member nation are informed and invited to participate in the Bidding procedure.
 1.5. Dalībvalstu pārstāvji tiek aicināti savlaicīgi informēt savu valstu uzņēmumus un iesniegt atbllstošu ieinteresēto uzņēmumu Atbilstības deklarāciju atbilstoši NATO AC/4-D/2261 (1996 izd.) Pielikumam Nr. V no nacionālajām pārstāvniecībām iesniedzot Latvijas pārstāvniecībai NATO Delegation.NATO@mfa.gov.lv. ne vēlāk kā datumā. kas noteikts 1.6. punktā. 1.6.lepirkums tiek rīkots vienā kārtā – kvalitīkācijas dokumentu un piedāvājumu 	 1.5. National authorities are requested to timely inform potential bidders from their respective countries and submit the appropriate Declaration of Eligibility of the interested Bidders as per Annex V of NATO AC/4-D/2261 (1996 Edition) from national delegations to Latvian Delegation at NATO Delegation.NATO amfa.gov.lv not later than the date defined in para. 1.6. below. 1.6. The Bidding procedure will be conducted in single phase – the deadline for qualification

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18.decembrim plkst.14.00. iesniedzot	December 18th , 2024 till 14.00 by
piedāvājumu Centra Kancelejā, Ernestīnes	submitting bid in the Secretariat of Centre.
ielā 34, Rīgā, Latvijā.	Ernestines street 34, Riga, LV-1046, Latvia.
1.7.NCB+ procedūra tiek organizēta atbilstoši	1.7. NCB+ procedure is carried out according to
Aizsardzības un drošības jomas iepirkumu	Law on Procurements in the Field of Defence
likumam.	and Security.
1.8.Līguma slēgšanas tiesības tiks piešķirtas	1.8. The right to conclude the contract will be
kandidātam, kurš ir piedāvājis lepirkuma	awarded to the bidder who has submitted an
procedūras prasībām atbilstošu piedāvājumu	offer meeting the requirements of the call for
ar viszemāko cenu.	the Bidding procedure with the lowest price.
1.9.lepirkuma dokumentācija un iepirkuma	1.9. The bid documentation and contract are in
līgums ir latviešu valodā. Dokumentiem,	Latvian. Translation of documents,
sertifikātiem u.c., kas ir svešvalodās	certificates, etc., into Latvian must be
jāpievieno tulkojums latviešu valodā. Visa	provided for documents originally issued in
komunikācija iepirkuma ietvaros notiek	foreign languages. All communication in the
latviešu valodā.	framework of the bidding process are in
	Latvian.
2. PROJEKTA KOPSAVILKUMS	2. PROJECT SUMMARY
	DESCRIPTION
Projekta kopsavilkums pievienots pielikumā.	The summary of the project is attached in the
	annex.
3. PRETENDENTU ATLASES	3. BIDDERS PARTICIPATION CRITERIA
KRITĒRIJI	
3.1.Par atbilstošiem pretendentiem iepirkuma	3.1. Bidders eligible to participate in the bidding
procedūrā uzskatāms uzņēmums no NATO	process are firms from NATO member states
dalībvalsts, kuru attiecīgā dalībvalsts ir	that have been designated as eligible by their
norādījusi kā atbilstošu piedalīties	respective national authorities to participate
attiecīgajā konkursā saskaņā ar NATO	in the subject bid in accordance with par. 5
AC/4-D/2261 (1996. gada izdevums)	of NATO AC/4-D/2261 (1996 Edition) by
5.nodaļu, iesniedzot "ATBILSTĪBAS	submitting a "DECLARATION OF
DEKLARĀCIJU" kā minēts NATO AC/4-	ELIGIBILITY", as referred in ANNEX V of
D/2261 1996.gada izdevuma V	AC/4-D/2261 1996 Edition).
PIELIKUMĂ).	
3.2. Pretendenta vidējais gada (neto) <u>finanšu</u>	3.2. The bidder's average annual (net) financial
apgrozījums iepriekšējos 3 (trīs) gados (t.i.,	turnover over the previous 3 (three) years
no 2021.gada līdz pieteikumu iesniegšanas	(i.e. from 2021 until the last day of the
<i>termiņa pēdējai dienai</i>) ir ne mazāks kā	deadline for submission of application
16 000 000 EUR (sešpadsmit miljoni <i>euro</i>).	documents) is not less than 16 000 000 EUR
Ja pretendents ir dibināts vēlāk, tad	(sixteen million euro). If the bidder was
pretendenta finanšu apgrozījumam jāatbilst	established later, the bidder's financial
iepriekš minētajai prasībai attiecīgi īsākā	turnover must meet the above-mentioned
laika periodā. Ja pretendents ir dibināts vēlāk	requirement in the correspondingly shorter
un, ja pretendents nav noslēdzis nevienu	period. If the bidder has been established
finansu gadu, pretendentam ir jäiesniedz	later and if the bidder has not closed any
operatīvā bilance.	financial year, the applicant must submit an
Ja pieteikumu iesniedz piegādātāju apvienība,	operating balance sheet.
tad vismaz vienam no piegādātāju apvienības	If the application is submitted by an association
biedriem ir šajā punktā minētais apgrozījums,	of sumpliers then at least one of the sumplier
	in the second seco
vai piegadataju apvienība so prasību var	association members has the turnover referred in

apvienības biedru finanšu apgrozījumus (šādā gadījumā piegādātāju apvienības biedriem jābūt solidāri atbildīgiem par līguma izpildi).	fulfill this requirement as a whole by summing up the financial turnovers of the supplier association members (in this case, the supplier association members must be jointly and equally responsible for the performance of the contract).
 3.3. lepriekšējā sadarbība ar Centru par tādiem līgumiem, kuru līgumcena ir virs 1 000 000 EUR bez Pievienotās vērtības nodokļa un izpildīto līgumu ietvaros veikto darbu specifika ir līdzvērtīga iepirkuma priekšmetam, kuru Centrs vidējā vērtējumā ir novērtējis vismaz ar 6 ballēm10 ballu skalā (pamatojoties uz šādiem vērtēšanas kritērijiem – saistību izpilde termiņā; pielietoto materiālu, iekārtu kvalitāte; spēja operatīvi risināt problēmsituācijas; spēja atri novērst būvniecības defektus; garantijas saistību izpilde pēc objekta nodošanas). 3.4. Uz piedāvājuma iesniegšanas dienu pretendentam ir jābūt reģistrētam būvkomersantu reģistrā Latvijas Republikas 	 3.3. Previous cooperation with the Center on contracts exceeding 1 000 000 EUR excluding Value Added Tax has entailed executing work comparable in specificity to the current procurement. These executed contracts have been evaluated by the Center with an average score of at least 6 of 10, based on criteria such as the fulfillment of obligations by the deadline; quality of used materials, equipment; ability to promptly solve problem situations; ability to organize work in closed areas; ability to quickly eliminate construction defects; fulfillment of warranty obligations after handover of the object. 3.4. By the day of submission of the offer, the Bidder must be registered in the Register of Building Merchants of the Republic of
normatīvajos aktos noteiktajā kārtībā. Latvia in accordance with the prospecified in the regulatory acts Republic of Latvia	
 3.5. Uzņēmējam jāiesniedz būvdarbos iesaistīto inženiertehnisko darbinieku saraksts, norādot: 3.5.1. atbildīgo būvdarbu vadītāju, kurš sertifieēts ēku būvdarbu vadīšanā; 3.5.2. atbildīgo speciālistu, kurš sertificēts ceļu būvdarbu vadīšanā: 3.5.3. atbildīgo speciālistu, kurš sertificēts siltumapgādes, ventilācijas un gaisa kondicionēšanas sistēmu būvdarbu vadīšanā; 3.5.4. atbildīgo speciālistu, kurš sertificēts elektroietaišu (spriegums līdz 1 kilovoltam) izbūves darbu vadīšanā; 3.5.5. atbildīgo speciālistu, kurš sertificēts elektroietaišu (spriegums līdz 1 kilovoltam) izbūves darbu vadīšanā; 3.5.6. ūdensapgādes un kanafizācijas sistēmu (ieskaitot ugunsdzēsības sistēmas) būvdarbu vadīšanā; 	 3.5. The Bidder must submit a list of engineering workers involved in the construction works, including: 3.5.1. The appointed construction works manager. certified in building construction works management; 3.5.2. The appointed specialist certified in the management of road construction works; 3.5.3. The appointed specialist certified in the management of construction works for heating, ventilation and air conditioning systems; 3.5.4. The appointed specialist certified in the management of construction works for electrical equipment (voltage up to 1kV); 3.5.5. The appointed specialist certified in the management of construction works for electrical equipment (voltage up to 1kV); 3.5.6. The appointed specialist certified in the management of construction works for electronic communication systems and networks;

3.6. Uz piedāvājuma iesniegšanas dienu pretendenta atbildīgajiem speciālistiem ir atbilstoši būvprakses sertifikāti vai, ja persona attiecīgo izglītību un profesionālo kvalifikāciju ieguvusi ārpus Latvijas Republikas, profesionālās kvalifikācijas atzīšanas apliecība vai kompetentas institūcijas atļauja sniegt īslaicīgus profesionālos pakalpojumus Latvijas Republikā.	 water supply, sewage systems, and fire extinguishing systems; 3.5.7.The appointed specialist certified in the management of amelioration system construction works. a.6 The responsible specialists listed by the bidder must possess appropriate construction practice certificates. If a person obtained relevant education and professional qualifications or permission from a competent institution to provide temporary professional services in the Republic or Latvia. 	
4. PROJEKTA BUDŽETS	4. PROJECT BUDGET	
Projekta plānotais budžets ir līdz 18 000 000 EUR (astoņpadsmit miljoni euro) un tas netiek dalīts atsevišķos līgumos vai daļās.	The project budget is estimated to be up to eighteen million Euro (18 000 000 EUR), and it will not be divided into different contracts and lots.	
5. PAREDZAMAIS DARBU IZPILDES	5. ANTICIPATED TIME OF WORKS	
leinteresētiem pretendentiem ir jāņem vērā, ka līgumu izpildē noteikto darbu izpildes kopējais termiņš ir 15 mēneši no atzīmes saņemšanas būvatļaujā par būvdarbu uzsākšanas nosacījumu izpildi.	ka The Bidder shall take into account that the ais anticipated time to complete the Contract is fifteen (15) month beginning from the mark in the construction permit regarding the fulfillment of the conditions for starting construction works.	
6. INFORMĀCIJAS APMAIŅA	6. INFORMATION EXCHANGE	
6.1. Organizatoriska rakstura informāciju par lepirkuma procedūru sniedz Centra Juridiskā un iepirkumu nodrošinājuma departamenta Infrastruktūras un apsaimniekošanas līgumu un iepirkumu nodaļas eksperte Ervita Riekstiņa, e-pasts: <u>Ervita.Riekstina@vamoic.gov.lv</u> .	 6.1 Organizational information about the procurement procedure is provided by the expert from the Infrastructure and Management Contracts and Procurement Department within the Center's Legal and Procurement Assurance Department – Ervita Riekstiņa, e-mail: Ervita.Riekstinal@vamoic.gov.ly. 	
6.2. Detalizētāku informāciju par nolikumā un līguma projektā iekļautajām prasībām pretendents var saņemt, nosūtot pieprasījumu izsniegt nolikumu un līguma projektu 6.1. punktā norādītajai personai.	6.2 Applicants can obtain more detailed information about the requirements outlined in the regulations and the draft contract by submitting a request to the person specified in paragraph 6.1	
 6.3. lepirkuma tehnisko dokumentāciju pretendents var saņemt nosūtot pieprasījumu 6.1.punktā noteiktajai personai. pēc apliecinājuma par lerobežotas pieejamības informācijas aizsardzību parakstīšanas un iesniegšanas 	6.3 Applicants can obtain the procurement technical documentation by submitting a request to the person specified in clause 6.1, after signing and submitting the certificate for protection of restricted access information to the Center's office on	

Centra Kancelejā, Ernestīnes ielā 34, Rīgā,	Mondays - Fridays from 08:30 to 17:00 in the	
Latvijā, pirmdienās – piektdienās no plkst.	st. Secretariat of Centre, Ernestines street 34	
08:30 līdz plkst. 17:00.	Riga, LV-1046, Latvia.	
6.4. Aizsardzības un drošības jomas iepirkumu	6.4. English version of Law on Procurements in	
likums angļu valodā pieejams:	the Field of Defence and Security can be	
https://likumi.lv/ta/id/238803-aizsardzibas-	found under the following link:	
un-drosibas-jomas-iepirkumu-likums	https://likumi.lv/ta/en/en/id/238803-law-on-	
6.5. Būvniecības likums angļu valodā pieejams:	ns anglu valodā pieejams: procurements-in-the-field-of-defence-and-	
https://likumi.lv/ta/en/en/id/258572-	security	
construction-law	6.5. English version of Construction Law can be	
	found under the following link:	
	https://likumi.lv/ta/en/en/id/258572-	
	construction-law	

Sagatavotājs: R.Čumakeviča Rita.Cumakevica@vamoic.gov.lv

Construction of buildings and engineering structures in the facility "Mežaine" in Ranķu parish, Kuldīga district, Phase 1

The main purpose of the project is creation of a temporary personnel accommodation area – Life Support Area (LSA).

Master Plan Solutions and Site Development

The proposed buildings are situated in the southwest-southeast section of the territory. Deforestation will be conducted as part of a related project. New utility connections for the designed buildings will be established.

The area is currently forested. There is no existing infrastructure or paving in the designated construction area. The plan includes the creation of asphalt access roads, paved pedestrian pathways, paved areas, and gravel-paved areas. Following construction, the areas impacted during the building process will be restored.

Rainwater drainage will be facilitated by designing surface slopes away from the buildings. Paved or gravel areas around the buildings will assist in directing rainwater away and naturally infiltrating it into the soil. The project ensures a load-bearing capacity of at least 11.5 tons per axle for designated areas.

The site will have perimeter lighting with poles at a minimum height of 4500 mm. The number and arrangement of lighting poles and floodlights will be designed to achieve external perimeter illumination of at least 30 lx/m². Lighting systems are designed to turn on and off via a twilight switch.

The project will be implemented in 2 phases.

Phase 1 construction project will envisages:

- Installation of utility networks and communications throughout the entire area;
- 10 (ten) lightweight wooden structures of the "B-hut" type;
- 1 (one) separate domestic building;
- 1 (one) boiler house;
- KCP (Control Checkpoint);
- areas for tent spaces, 20-foot containers and medical care complex spaces, multifunctional area;
- water and firefighting reservoirs, water treatment facilities;
- 3 (three) water wells, ensuring that drinking water meets NATO STANAG 2556 and AMedP-4 standards;
- installation of electrical transformers;
- cleaning and reduction of the existing pond;
- construction of fencing;
- establishment of recreational areas, including fitness zones, smoking areas, waste container stations, volleyball courts, and landscaping around the existing pond.

1. Domestic building

Technical and Economic Specifications of the Domestic Building	
Building group	2
(according to Latvian General Construction Regulations)	
Building use type	11
Degree of fire safety	U3
Number of above-ground floors	2 (1 + attic)
Building area	911.70 m ^{2*}
Building volume	4357 m ^{3*}
Building volume without attic	3282 m ^{3*}
Total floor area	1129.20 m ^{2*}
Building height	6.80 m

*Information provided per 1 building.

Architectural Solutions

The project includes three identical domestic buildings. Construction will proceed in two phases: one building will be constructed in Phase 1, and two buildings in Phase 2. Buildings are intended to be built from prefabricated industrial structures, which will be supported on a monolithic concrete foundation slab

Each building will be a single-story rectangular structure (16.14 x 56.49 m) with a hipped roof and uninsulated attic space, accommodating up to 100 occupants simultaneously.

Load-Bearing Structures: The foundation is supposed to be made of monolithic reinforced concrete, 200 mm thick, with a depth of 400 mm under load-bearing walls. Exterior walls will use prefabricated three-layer sandwich-type reinforced concrete panels with insulation, while the roof will feature prefabricated wooden trusses covered with galvanized tin sheeting. The intermediate floor will be constructed from hollow precast concrete panels.

Exterior Finishing: The exterior will be finished with painted plaster, and the roof will have trapezoidal steel sheeting with a 45 mm profile height and PURAL coating. Rainwater will be collected via a drainage system.

Interior Layout: The interior layout is customized to client specifications, including sanitary facilities with showers, toilets, sinks, laundry machines, dryers, and utility rooms for maintenance, such as electrical distribution, ventilation, janitorial storage, auxiliary rooms, and hallways. Six evacuation exits are planned.

Partitions: Partitions will be constructed from prefabricated reinforced concrete panels, masonry walls, or gypsum board.

Interior Finishing: The floors will have a heterogeneous PVC finish with slip-resistant properties, walls will be finished with fiberglass wallpaper, and ceilings will be painted gypsum board. Aluminum structure doormats will be installed in the entrance floors.

Windows and Doors: The buildings will feature aluminum exterior doors, PVC or aluminum for interior doors. The windows are designed to be factory-installed within the wall panel.

Engineering Solutions

- Structural Engineering (BK): The building's slab foundations are to be constructed from 200 mm thick monolithic reinforced concrete, under load-bearing walls 400 mm thickness. The building walls are intended to be made from factory-produced reinforced concrete structures, which will be assembled on-site.
- Heating and Ventilation (AVK): To offset heat loss, it is planned to install radiators with thermostatic controls and underfloor heating. The ventilation system will include both natural ventilation (operable windows) and a mechanical ventilation system.
- Internal water supply and sewage networks (ŪK): The building will be equipped with internal water supply and sewerage networks.
- Rainwater Drainage: The project includes provisions for collecting rainwater runoff.
- Electrical Supply (EL Internal): Each building is planned to be equipped with an ASS-1 distribution board, connected to the main project distribution boards, where a meter will be installed for each building. The electrical network will use NYY-J-5x4 copper cables installed openly above wall and ceiling finishes. LED lighting is planned to be installed throughout the building, including outside at the entrance.
- Electrical Supply (ELT External): To ensure power supply, a 0.4 kV electrical network line will connect each building to the main project switchboard. Each building will have a lightning protection system meeting Level III (Class) standards.
- Fire protection automation systems (UAS): Fire detection and alarm systems are included. A control panel will be installed on the first floor, with all rooms, including the attic, covered by automatic fire detectors. Power will be sourced from the ASS-1 switchboard's uninterrupted group, with backup batteries (12V/DC) providing 30 minutes of fire mode operation and 72 hours of standby operation.

Fire Safety Measures

- Technical Specifications and Fire Resistance: Usage designation II (per LBN 201-15, Clause 5). Fire resistance rating U3 (LBN 201-15, Appendix 3). The maximum permissible fire compartment area for U3 fire resistance rating is limited to 1600 m². Building treated as a single fire compartment.
- Evacuation Solutions: Five evacuation exits are provided for the building (LBN 201-15, Clause 105).

2. "B-hut" type buildings - 10 Units

Technical and Economic Specifications of the "B-hut" Type Building		
Building group	2	
(according to Latvian General Construction Regulations)		
Building use type		
Degree of fire safety	U3	
Number of above-ground floors	1	
Building area	235.30 m ^{2*}	
Building volume	1131 m ^{3*}	
Building volume without attic	777 m³*	
Total floor area	211.30 m ^{2*}	
Building height	6.00 m	

*Information provided per 1 building.

Architectural Solutions

The project includes 18 identical "B-hut" type buildings. Construction will proceed in two phases: ten building will be constructed in Phase 1, and eight buildings in Phase 2. Buildings are intended to be built from prefabricated industrial structures, which will be supported on a monolithic concrete foundation slab.

Load-Bearing Structures: The foundation is supposed to be made of monolithic reinforced concrete, 200 mm thick, with a depth of 400 mm under load-bearing walls. The walls are intended to be constructed from factory-produced wooden panels, and the roof from factory-produced wooden trusses.

Exterior Finishing: The exterior will be finished with painted wooden plank cladding, the roof will have trapezoidal steel sheeting with a 45 mm profile height and PURAL coating. Rainwater from the roof is intended to be directed above ground, infiltrating into the soil.

Interior Layout: At the building entrance, a vestibule with two doors leading to the living area designed to accommodate 34 beds is planned.

Partitions: prefabricated wooden panels, C24, with sound insulation, b=100mm. Wall clad with OSB board, b=10mm, and gypsum board on each side.

Interior Finishing: The interior includes a slip-resistant, heterogeneous PVC floor, fiberglass wallpaper for walls, and painted gypsum board ceilings. Aluminum structure doormats with brush strips will be embedded in the entrance area floor.

Windows and **Doors**: The buildings will feature aluminum exterior doors and wood-framed interior doors with veneer finishes. The windows are designed to be factory-installed within the wall panel.

Engineering Solutions

Structural Engineering (BK): The building's slab foundations are to be constructed from 200 mm thick monolithic reinforced concrete, 400mm thick under load-bearing walls.

Prefabricated wooden structures assembled onsite. Wall panels are 381mm thick, filled with insulation and including both internal gray and external decorative wood finishes. Roofs are prefabricated using C24-grade wood, with anti-condensation membranes, and covered with steel roofing.

Heating and Ventilation (AVK): Heating will be provided by electric convectors with thermostats, and natural ventilation will be available through operable windows. Mechanical ventilation is not included.

Internal water supply and sewage networks: The buildings will not have internal plumbing. A domestic building with shared showers and restrooms will be built separately.

Rainwater Drainage: Designed based on a roof area of 287.7 m² and a rainwater flow rate of 6.20 l/s per building. Aggregate runoff and impervious areas calculate a total discharge rate of 103.2 l/s.

Electrical Supply (EL - Internal): Each building is planned to be equipped with an ASS-1 distribution board, connected to the main project distribution boards, where a meter will be installed for each building. The electrical network will use NYY-J-5x4 copper cables installed openly above wall and ceiling finishes. LED lighting is planned to be installed throughout the building, including outside at the entrance.

Electrical Supply (ELT - External): To ensure power supply, a 0.4 kV electrical network line will connect each building to the main project switchboard. Each distribution board is planned to have connections for four buildings, and meters for each building are to be installed in the main project distribution boards. Each building will have a lightning protection system meeting Level III (Class) standards.

Fire protection automation systems (UAS): Fire detection and alarm systems are included. A control panel will be installed on the first floor, with all rooms, including the attic, covered by automatic

fire detectors. Power will be sourced from the ASS-1 switchboard's uninterrupted group, with backup batteries (12V/DC) providing 30 minutes of fire mode operation and 72 hours of standby operation.

Fire Safety Measures

- Technical Specifications and Fire Resistance: Classified as public accommodation (Type II) (per LBN 201-15, Clause 5.2) with U3 fire resistance rating (LBN 201-15, Appendix 3). The maximum permissible fire compartment area for U3 fire resistance rating is limited to 1600 m². Building treated as a single fire compartment.
- **Evacuation Solutions:** One evacuation exit is provided for the building (LBN 201-15, Clause 105). It is sufficient for 34 occupants, with a maximum travel distance to exit of 30 m.

3. KPC - checkpoint building

Technical and Economic Specifications of the KPC-Checkpoint Building

Building group	1
(according to Latvian General Construction Regulations)	
Building use type	V
Degree of fire safety	U3
Number of above-ground floors	1
Building area	14.70 m ²
Building volume	44 m ³
Total floor area	12.10 m ²
Building height	3.30 m

Architectural Solutions

- **Building Structure:** A single-story, rectangular container-type structure to be built on a monolithic concrete foundation slab. The building is designed for a maximum occupancy of three people.
- Load-Bearing Elements: Foundation made from 200mm thick monolithic reinforced concrete, increasing to 400mm under load-bearing walls. The container wall structure is composed of a metal frame with a metal exterior and insulation. The roof is an insulated, flat design.
- Exterior Finishes: Painted tin is intended for the building, with rainwater collection from the roof.
- Interior Layout: Configured according to client requirements.
- Interior Finishes: Heterogeneous PVC flooring with enhanced slip resistance, fiberglass wallpaper for walls, and painted gypsum board ceilings.
- Windows and Doors: It is planned to install aluminum exterior doors for the building.

Engineering Solutions

- Structural Engineering (BK): Foundation slab is 200mm thick, with 400mm thickness under load-bearing walls.
- Heating and Ventilation (AVK): Electric convectors with temperature regulators provide heating, allowing energy-efficient temperature control. Ventilation is natural, with operable windows.

- Water and Sewage (ŪK): The building has no water or sewage systems. Rainwater will be collected.
- Electrical Systems (EL): The electrical network will use NYY-J-5x4 copper cables installed openly above wall and ceiling finishes. LED lighting is planned to be installed throughout the building, including outside at the entrance.
- External Electrical Infrastructure (ELT): To provide the planned building with power supply, a 0.4kV electrical network line is to be established from the main project distribution boards. A lightning protection system meeting Protection Level III (Class) is planned for the building.

Fire Safety Measures

Technical Specifications and Fire Resistance: Classified as Type V building (per LBN 201-15, Clause 5) with U3 fire resistance rating (LBN 201-15, Appendix 3). The maximum permissible fire compartment area for U3 fire resistance rating is limited to 1600 m². Building treated as a single fire compartment.

4. Boiler house

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Building group	2	
(according to Latvian General Construction Regulations)		
Building use type	VI	
Degree of fire safety	U3	
Number of above-ground floors	2	
Building area	181.50 m ² *	
Building volume	938 m³*	
Total floor area	174.60 m ² *	
Building height	6.40 m	

Technical and Economic Specifications of the Boiler House

*Information provided per 1 building.

Architectural Solutions

Building Structure: The project includes three identical two-story boiler house buildings. Construction will proceed in two phases: one building will be constructed in Phase 1, and two buildings in Phase 2. Buildings are intended to be constructed with container-type structures, which will be supported on a monolithic concrete foundation slab. Each building has a rectangular shape and is designed for one-person occupancy at a time.

- Load-Bearing Elements: Foundation made from 200mm thick monolithic reinforced concrete slab, increasing to 400mm under load-bearing walls. Walls are prefabricated container-type a metal frame with metal cladding, and insulation, while the roof is an insulated flat roof design.
- Exterior Finishes: The exterior will feature painted sheet metal, with rainwater collection systems in place.
- Interior Layout: Configured to meet specific client requirements.
- Interior Finishes: Interior finishes include slip-resistant, easy-to-clean heterogeneous PVC flooring and washable wall coverings. Ceilings are painted gypsum board.
- Windows and Doors: Aluminum doors are used for both exterior and interior entrances, PVC frame windows.

Engineering Solutions

- Structural Engineering (BK): The foundation is 200mm thick reinforced concrete slab thickened to 400mm under load-bearing walls.
- Heating and Ventilation (AVK): Radiators will be installed to offset heat loss, and natural ventilation will be provided through operable windows and wall openings.
- Water and Sewage (UK): The building is intended to be equipped with water supply and sewage systems.
- Rainwater Drainage: The project includes provisions for collecting rainwater runoff.
- Electrical Systems (EL): The electrical network will use NYY-J-5x4 copper cables installed openly above wall and ceiling finishes. LED lighting is planned to be installed throughout the building, including outside at the entrance.
- External Electrical Infrastructure (ELT): To provide the planned building with power supply, a 0.4kV electrical network line is to be established from the main project distribution boards. A lightning protection system meeting Protection Level III (Class) is planned for the building.

Fire Safety Measures

Technical Specifications and Fire Resistance: Classified as Type VI building (per LBN 201-15, Clause 5) with U3 fire resistance rating (LBN 201-15, Appendix 3). The maximum permissible fire compartment area for U3 fire resistance rating is limited to 2000 m². The entire building treated as a single fire compartment.

5. Secondary Water Booster Pump Station

Technical and Economic Specifications of the Pump Station

Building group (according to Latvian General Construction Regulations)	2
Building use type	VI
Degree of fire safety	U3
Number of above-ground floors	1
Building area	58.60 m ²
Building volume	250 m ³
Total floor area	47.80 m ²
Building height	4.90 m

Architectural Solutions

- **Building Structure:** The water pump station will be built in phase 1 as a single-occupancy building with load-bearing reinforced concrete foundations and insulated masonry walls (250mm thick). The building will have a pitched, insulated roof.
- Exterior Finishes: Walls will be finished with painted decorative plaster, while the roof will feature painted metal cladding. Rainwater will be collected via a drainage system with gutters.
- Interior Layout and Finishes: Custom layout as per client requirements. Interior finishes include slip-resistant heterogeneous PVC flooring and walls will be finished with easy-to-clean coverings.
- Windows and Doors: Aluminum exterior doors, PVC windows.

Engineering Solutions

- Structural Design (BK): The foundation is designed as a monolithic concrete strip foundation, 250mm thick.
- Heating and Ventilation (AVK): Radiators will be installed to maintain internal temperatures, and natural ventilation is provided by operable windows and wall openings.
- Water Supply and Sewage (ŪK): The building will be connected to water supply and sewage systems.
- Rainwater Drainage: A rainwater collection system will be in place.
- Internal Electrical Systems (EL): Electrical wiring will be copper (NYY-J-5x4), with LED lighting throughout, including outdoor entry lighting. All cables are planned to be installed openly, above the wall and ceiling finishes.
- External Electrical Systems (ELT): A 0.4kV power line will supply electricity to the building, and a lightning protection system (Level III) will be installed.

Fire Safety

Classified as Type VI, suitable for production operations with a U3 fire resistance level, with a maximum allowable fire compartment area of 2000 m². The building is designed as a single fire compartment.

6. Water reservoir – 2 Units

Technical and Economic Specifications of the Water Reservoir

Building group (according to Latvian General Construction Regulations)	2
Building use type	VI
Degree of fire safety	U1
Number of above-ground floors	1
Building area	169.00 m ² *
Building volume	410 m ^{3*}
Total floor area	145.80 m ² *
Building height	3.25 m

*Information provided per 1 building.

Architectural Solutions

- **Structure:** The two reservoirs will be constructed in phase 1 with monolithic reinforced concrete foundations and thermal insulation. The roof will be a flat with thermal insulation.
- Exterior Finishes: The reservoir walls will have a painted plaster finish, and the roof will feature a green (planted) roof system.
- Interior Layout: The interior layout is designed per client specifications.
- Access: Insulated metal hatch will be installed for access to the reservoir.

Engineering Solutions

- Structural Design (BK): The foundations are designed as 300mm thick strip foundations made of monolithic reinforced concrete.
- Water Supply and Drainage (ŪK): The reservoirs will be connected to a water supply system; no rainwater drainage system is planned.
- Internal Electrical Systems (EL): Internal power supply wiring will use NYY-J-5x4 copper cables.

• External Electrical Systems (ELT): A 0.4kV electrical network line is planned to be established from the main project distribution boards.

Fire Safety

Classified as Type VI (LBN 201-15), suitable for industrial operations. The structure meets U1 fire resistance, with a maximum allowable compartment size of 5000 m². The reservoirs are considered a single fire compartment.

7. Firefighting Water Reservoir

Technical and Economic Specifications of the Firefighting Water Reservoir

Building group (according to Latvian General Construction Regulations)	2
Buildin g u se t ype	VI
Degree of fire safety	U1
Number of above-ground floors	1
Building area	169.00 m ²
Building volume	410 m ³
Total floor area	145.80 m ²
Building height	3.25 m

Architectural Solutions

- Project Scope: The design includes 1 fire water reservoir, to be constructed in the phase 1.
- **Structural Design:** The reservoir's foundation will be made of monolithic reinforced concrete with insulation. The roof will be a flat, green roof with insulation.
- Exterior Finishes: Exterior walls will feature painted plaster, the roof will be covered with a green roof system.
- Access and Layout: Access to the reservoir will be through an insulated metal hatch. The internal layout is designed according to the client's requirements.

Engineering Solutions

- Structural Design (BK): The foundations are designed as 300mm thick strip foundations made of monolithic reinforced concrete.
- Water Supply and Drainage (ŪK): The reservoir will have water supply network connections. Rainwater collection systems are not planned for this structure.
- Internal Electrical Systems (EL): Power supply networks inside the building will use NYY-J-5x4 copper cables.
- External Electrical Systems (ELT): A 0.4kV electrical network line is planned to be established from the main project distribution boards.

Fire Safety

Classified as Type VI (according to LBN 201-15) for industrial use, the building's fire resistance is set at U1. The design follows the U1 fire resistance class standards, with a maximum permissible compartment area of 5000 m², allowing the entire structure to function as a single fire safety compartment.

8. Wastewater Treatment Facilities

Technical and Economic Specifications of the Wastewater Treatment Facilities

Building group	2
(according to Latvian General Construction Regulations)	
Building use type	VI
Degree of fire safety	U3
Number of above-ground floors	1
Building area	297.20 m ²
Building volume	861 m ³
Total floor area	284.00 m ²
Building height	2.90 m

Architectural Solutions

- **Project Scope:** The design includes a wastewater treatment facilities to be built in the first phase. The structure is planned as a single-story, rectangular, container-type facility supported by a monolithic reinforced concrete foundation slab.
- Load-Bearing Elements: Foundation made from 200mm thick monolithic reinforced concrete slab, increasing to 400mm under load-bearing walls. The walls intended to be prefabricated container-type structures with a metal frame and metal siding, as well as an insulation layer. The roof is flat and insulated.
- Exterior Finishes: Painted tin is intended for the building.

Engineering Solutions

- Structural Foundations (BK): The foundation slab will be made from 200mm-thick monolithic reinforced concrete, under the load-bearing walls 400mm thick (Ø12 reinforcement from B500B class).
- Water Supply and Sewerage (ŪK): The facility will be connected to both water supply and sewerage networks.
- External Power Supply (ELT): A 0.4kV electrical network line is planned to be established from the main project distribution boards. A lightning protection system (Level III) will be installed.

Fire Safety and Technical-Economic Indicators

• **Building Use and Fire Resistance:** Classified as Type VI (per LBN 201-15) for industrial facilities, with a U3 fire resistance rating. The structure is designed to meet U3 fire resistance standards, with a maximum compartment area limit of 2000 m², allowing the building to function as a single fire compartment.

External Firefighting Water Supply

The project complies with Latvian regulations (LBN 222-15) for external firefighting water supply. Firefighting water can be sourced from two water access points within 200 m of the building: a pond and a firefighting water reservoir.

Domestic Water Supply (Ū1):

Planned water source: three proposed deep wells (2 operational + 1 backup). Well capacity: 4.0 l/s each, depth approximately 250 m.

The project includes:

- well head structures with water meters, technical fittings, and measuring instruments,
- a secondary pumping station with 3 pumps (2 operational, 1 backup) with a total capacity of Q=80 m³/h, H=3 bar,
- a designated area for water treatment equipment (total capacity Q=15 m³/h) within the secondary pumping station room,
- four water reservoirs for domestic water supply, each with a capacity of W=100 m³,
- a looped water main using PE pipes with OD 160 mm, equipped with underground shut-off valves.

Notes:

- All materials specified and used in the project have been selected for their properties and quality.
- The specified materials may be replaced with equivalent alternatives from other manufacturers, provided these alternatives meet or exceed the properties and quality of the original materials and are approved by the project authors and client.
- Only construction materials demonstrating high environmental and health compatibility throughout their lifecycle—extraction, processing, transport, use, and waste management—should be used.
- The project is intended to use EU-certified materials.