**Appendix № 4 to the tender documentation**

**INFORMATION ON THE NECESSARY TECHNICAL, QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF THE PROCUREMENT ITEM**

**Scope of work:**

Stage 1- design work on the **“Construction of area for passenger vehicles and buses in the checkpoint for road traffic “Krakivets” and reconstruction of the infrastructure of the Ukrainian part of the existing checkpoint “Krakivets” on the Ukrainian-Polish border”**.

Stage 2 - construction work

* 1 start-up facility “Construction of area for passenger vehicles and buses in the checkpoint for road traffic “Krakivets”;
* 2 start-up facility “Reconstruction of the infrastructure of the Ukrainian part of the existing checkpoint “Krakivets” (two start-up facilities).

Installation of video surveillance, number-plate recognition, access control, structured cabling, weighing complexes (including commissioning work), automatic security alarm, automatic perimeter security alarm systems is provided for as part of construction work.

**STAGE І**

**Scope statement**

for the design of the object “Construction of area for passenger vehicles and buses in the checkpoint for road traffic “Krakivets” and reconstruction of the infrastructure of the Ukrainian part of the existing checkpoint “Krakivets” on the Ukrainian-Polish border”

according to the “design-construction” model

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| **Item No.** | **List of basic data and requirements** | **Content of basic data and requirements** |
| 1 | Name and locationof construction object | “Construction of area for passenger vehicles and buses in the checkpoint for road traffic “Krakivets” and reconstruction of the infrastructure of the Ukrainian part of the existing checkpoint “Krakivets” on the Ukrainian-Polish border”,“Krakovets” international automobile crossing checkpoint, situated on international auto route E40 of the ІІІ international transport corridor 54, 55, 56, 57, 58, 59, 60, 61, M. Verbytskogo Str., Krakovets, Krakovets, Yavoriv district, Lviv region |
| 2 | Ground for design | Agreement between the Government of Ukraine and the Government of the Republic of Poland on extending a tied aid credit dd 09.09.2015 was ratified by the Law of Ukraine No. 977-VIII dd 03.02.2016.Decree of the Cabinet of Ministers of Ukraine dated February 14, 2017 No. 73 "Some issues of the implementation of the Agreement between the Government of Ukraine and the Government of the Republic of Poland on extending tied aid credit" |
| 3 | Type of construction | New construction, reconstruction |
| 4 | Data on investor | (To specify) |
| 5 | Data on customer | The State Customs Service of Ukraine |
| 6 | Source of funding | Credit funds of the Republic of Poland in accordance with the Agreement between the Government of Ukraine and the Government of the Republic of Poland on extending tied aid credit dd 09.09.2015  |
| 7 | Necessity of investment efficiency calculations | Investment project for development of border road infrastructure and arrangement of checkpoints (positive conclusion of the Ministry of Finance of Ukraine dated March 28, 2018 No. 12010-04-5/6017) |
| 8 | Data on the general design engineer | To be determined based on the results of the tender. |
| 9 | Stages of design with the determination of the approval stage (determined jointly by the customer and project designer) | Two-stage design: project design (P) (approval stage), detailed design documentation (D). |
| 10 | Engineering survey | Engineering and geodesy surveys - to perform and clarify previously performed ones.Engineering and geological surveys – to clarify previously performed ones. |
| 11 | Data on special construction conditions (seismic rating, collapsible soil, undermined and flooded areas, etc.) | Seismic rating of 6 points. The level of restoration, strengthening and reconstruction of load-bearing structures for the service building at the entrance to Ukraine (bus station), transformer substation to be adopted in compliance with clause 11.5 a "restoration of the state of the structures to the pre-damage level" DBN B.1.1-12:2014 "Construction in seismic areas of Ukraine" - "with preservation of the actual level of seismic equipment". |
| 12 | Construction priority, need to identify start-up facilities, features of construction | Two-stage construction.  **Stage 1** – 1. Construction of a section for cars and buses at the “Krakovets” international automobile crossing checkpoint; 2. Construction of new treatment facilities and water tower with dismantling of existing ones that have failed; 3. Reconstruction of the transformer substation;**Stage 2 with the allocation of two sturt-up facilities** – reconstruction of the infrastructure of the existing "Krakovets" checkpoint in the conditions of its operation.**The first sturt-up facility** - 1. Reconstruction of the existing bus station; 2. Are of in-depth inspection; 3. Warehouse of seized and confiscated goods; 4. Diesel-generator room; 5. Sheds (entrance - 3 traffic lanes near the bus station; exit - 3 traffic lanes near the bus station); 6 Passport and customs control pavilions at the entrance and exit - 12 (pcs.); 7. The relevant part of the territory of the checkpoint (landscaping); 8. Checkpoint pavilions (for border guards) - 3 (pcs.); 9. Checkpoint pavilions (for customs officers) - 2 (pcs.) **The second sturt-up facility** – 1. Sheds (entrance - 3 traffic lanes; exit - 2 traffic lanes; 2 Passport and customs control pavilions at the entrance and exit - 8 (pcs.); 3. The relevant part of the checkpoint territory (landscaping) |
| 13 | Determination of the class of consequences (responsibility) of the facility and the established period of operation | To be determined while designing. |
| 14 | Project capacity, its composition and main characteristics.Carrying capacity | The checkpoint operates year-round, 24/7, in two shifts.Design carrying capacity:Area for cars and buses (Stage 1)passengers - up to 8,420 people per day,3,100 vehicles per day, including:- cars - 3,000 cars per day- buses - 100 buses per dayThe number of workers per shift is 69 people per day incl.- customs officers – 30- border guards – 35- other - 4Area for trucks (Stage 2)- trucks - 1300 trucks per dayThe number of workers per shift is 99 people per day (2 shifts per day)incl.- customs officers – 44- border guards – 20- other -35 |
| 15 | Instructions on the need of* development of individual technical requirements;
* development of individual design solutions in several variants and on a competitive basis;
* preliminary approvals of project solutions;
* creation of demonstration materials, demonstrators, interior drawings, their composition and form; DBN А.2.2-3:2014 18
* performance of research and pilot testing in the design and construction process, performance of scientific and technical support;
* technical protection of information.
* Performing an examination
 | - create measurement drawings of the existing border crossing checkpoint infrastructure, inspect the technical condition of buildings and structures and draw up the appropriate act of inspection- Not required- The below-mentioned shall be previously agreed with the State Customs Service:site planes of customs and border units;technological checkpoint's operation diagram with determination of locations of weighing and scanning equipment;design considerations in video surveillance (incl. number-plate recognition, access control), automatic security alarm, automatic perimeter security alarm systems and structured cabling)agreed with the State Customs Service and State Border Service: general layout of the checkpoint-To be provided by the customer. Appendix 3.5- Not required- not required- Submit design documentation to an expert organization and receive a positive expert report  |
| 16 | Basic architectural and planning requirements and characteristics of the construction object | Design areas for cars and buses at the “Krakovets” international automobile crossing checkpoint on the territory of the current “Krakovets” international automobile crossing checkpoint and redesign the existing buildings and structures.Design for the following as part of the in the **first stage**:* 5 traffic lanes for cars and minibuses at the exit;
* 6 traffic lanes for cars and minibuses at the entrance;
* 2 traffic lanes for diplomats;
* 2 traffic lanes for buses at the entrance and exit;
* 2 boxes for in-depth inspection for buses, cars and minibuses (one each at the entrance and exit);
* service buildings for 18 workplaces at the exit;
* public toilets without permanent workplaces at the exit;
* service buildings for 20 workplaces with public toilets at the entrance;
* 1 modular checkpoint pavilion;
* 1 modular checkpoint and checkpoint dispatcher pavilion
* 11 modular customs and passport control pavilions;
* sheds over control zones;
* water tower;
* sewage treatment facilities;
* surface water treatment facilities;
* organized rain water sewer system;
* fire tanks according to calculation;
* fire and security alarm;
* outdoor lighting of the checkpoint territory;
* fencing of territory;
* telephone and computer communication;
* video surveillance system with access control and number-plate recognition systems
* disinfection barrier;
* landscaping;
* reconstruction of the water intake;
* road traffic organization;
* container sites for the collection of closed type solid waste;
* site for 25 detained cars.
* Reconstruction of the transformer substation;
* Installation of a diesel generator.

**Traffic lanes**Traffic lanes for cars and buses should be at least 3.0 m wide and equipped with appropriate signs.Arrange platforms for removing cars from the general flow on traffic lanes for cars. The platforms shall be located at an angle to the traffic lanes (in the direction of traffic) across the width of the customs and passport control pavilions in the amount of 1(2) platform in front of and behind the pavilions.**Service building at the entrance with public toilets (1 pcs.).**Number of employees - 20including customs officers - 8 border guards - 10 others - 2Design the service building as a one-story building with a combined roof. Design the building as a frame one of a steel frame made of rolled profiles. Design the walls of internal wall cassettes insulated with basalt slabs. Design partitions between rooms made of plasterboard, aerated concrete and glazed of aluminum profiles. Design the foundations according to the calculation and engineering and geological surveys. Provide for the ballastless roof with a PVC membrane coating. Provide for insulation of the roof with mineral wool slabs.Provide for the external decoration of the walls with fiber-cement slabs on internal wall cassettes. Design external windows of metal-plastic profiles with double-glazed windows, stained-glass windows – of aluminum profiles. Design doors to technical premises, as well as evacuation exits in accordance with the requirements of DBN B.1.1-7:2016. Design the entrance/exit doors to the inspection rooms as sliding ones of aluminum profiles. Provide for the arrangement of vestibules of aluminum profiles at the entrances.Provide for the wall finishing in the inspection rooms with HPL panels. Provide for the wall finishing in service premises with water-emulsion painting, in toilet facilities - facing with ceramic tiles to the entire height of the premises, in technical rooms - with water-emulsion painting.Design the floors in the offices of industrial linoleum, in the inspection room – of the ceramic granite slabs, in the toilet facilities - of ceramic tiles.Provide for ceilings in all rooms (except the inspection room) as suspended cassette ones of the Armstrong type, filled with aluminum panels (600X600mm or 1200X600mm). Provide for moisture resistant ceilings in technical rooms and toilet facilities. Provide for suspended rail cube-shaped and island plasterboard ceilings, or a ceiling of the Grigliato type in the inspection room.Design two passport control cabins in the inspection room as glazed ones of aluminum profiles. Provide for cabins with mirrors for viewing the control area. Provide for one computerized workplace with a computer desk and a chair in each passport control cabin. Provide for turnstiles with remote access control from the cabins on the traffic lanes of people near passport control cabins. Provide for the installation of two inspection tables for customs control with a stainless steel surface for inspection of hand luggage in the inspection hall. Provide for the installation of a personal computer with a multifunctional device, a computer table with a chair for each computerized workplace, wardrobe and bookcase in service premises. Provide for a chair, a wardrobe, a table with a chair and a washbasin in the room for personal inspection.Provide for the following rooms in the building: - an inspection room for passport and customs control of bus passengers, with the arrangement of two passport control cabins (computerized), one non-computerized customs control workplace and one computerized customs control workplace complete with conveyor type X-ray equipment on the "red" corridor (green and red corridors) (4 persons), arrangement of benches for waiting passengers;- premise for personal inspection with a washbasin;- service sanitary and hygienic facilities (toilet facilities): - sanitary and quarantine station in accordance with the requirements of the current legislation for one computerized workplace (1 person);- office of the border guard service shift supervisor for two computerized workplaces;- 2 border guard service premises for two computerized workplaces each;- premise for placement of technical means for border control of the Gart-1 system, equipped with fire and security alarms, warning system for two computerized workplaces;- premise (switch room) of the border guard service;- office of the customs service shift supervisor for two computerized workplaces;- 2 service premises of the customs service for two computerized workplaces each;- premises for placement of technical means of customs control;- premise (switch room) of the customs service;- premise of the bank for one computerized workplace;- switchboard room, - metering station;- boiler room;- cleaning facilities premise;- public toilets.Provide for air conditioning of the inspection hall, switch rooms and service premises of the customs and border guard services.Provide for public toilets without a permanent workplace. Provide for the amount of plumbing equipment according to the calculation. Provide for measures to create favourable living conditions for the persons with disabilities in the premises of customs units in accordance with the requirements of DBN B.2.2-40:2018 "Inclusiveness of buildings and structures".Design public toilets, roof, exterior decoration as in service building. Provide for the interior decoration of the walls of public toilets with ceramic tiles or other cladding materials to the height of the premise up to the suspended ceiling. Provide for suspended ceilings of the Armstrong moisture-resistant type. Provide for the floors of all public toilets of ceramic tiles.Provide for the following facilities in public toilets:- vestibule;- men's toilets with a sluice;- women's toilets with a sluice;- mother and child's room;- universal sanitary and hygienic room for a group of citizens with limited mobility;- storage room for cleaning facilities.**Service building at the exit (1 pcs.).**Number of employees - 18including customs officers - 8 border guards - 10 others - 2Design the service building as a one-story building with a combined roof. Design the building as a frame one of a steel frame made of rolled profiles. Design the walls of internal wall cassettes insulated with basalt slabs. Design partitions between rooms made of plasterboard, aerated concrete and glazed of aluminum profiles. Design the foundations according to the calculation and engineering and geological surveys. Provide for the ballastless roof with a PVC membrane coating. Provide for insulation of the roof with mineral wool slabs.Provide for the external decoration of the walls with fiber-cement slabs on internal wall cassettes. Design external windows of metal-plastic profiles with double-glazed windows, stained-glass windows – of aluminum profiles. Design doors to service premises of metal-plastic profiles. Design doors to technical premises as well as evacuation exits in accordance with the requirements of DBN B.1.1-7:2016. Design the entrance/exit doors to the inspection rooms as sliding ones of aluminum profiles. Provide for the arrangement of vestibules of aluminum profiles at the entrances.Provide for the wall finishing in the inspection rooms with HPL panels. Provide for the wall finishing in service premises with water-emulsion painting, in toilet facilities - facing with ceramic tiles to the entire height of the premises, in technical rooms - with water-emulsion painting.Design the floors in the offices of industrial linoleum, in the inspection room – of the ceramic granite slabs, in the toilet facilities - of ceramic tiles.Provide for ceilings in all rooms (except the inspection room) as suspended cassette ones of the Armstrong type, filled with aluminum panels (600X600mm or 1200X600mm). Provide for moisture resistant ceilings in technical rooms and toilet facilities. Provide for suspended rail cube-shaped and island plasterboard ceilings, or a ceiling of the Grigliato type in the inspection room.Design two passport control cabins in the inspection room as glazed ones of aluminum profiles. Provide for cabins with mirrors for viewing the control area. Provide for turnstiles with remote access control from the cabins on the traffic lanes of people near passport control cabins. Provide for the installation of two inspection tables for customs control with a stainless steel surface for inspection of hand luggage in the inspection room. Provide for one computerized workplace in passport control cabins. Provide for the installation of a personal computer with a multifunctional device, a computer table with a chair for each computerized workplace, wardrobe and bookcase in service premises. Provide for a chair, a wardrobe, a table with a chair and a washbasin in the room for personal inspection.Provide for the following:- an inspection hall for passport and customs control of bus passengers, with the arrangement of two passport control cabins (computerized), one non-computerized customs control workplace and one computerized customs control workplace complete with conveyor type X-ray equipment on the "red" corridor (green and red corridors) (4 persons), arrangement of benches for waiting passengers;- premise for personal inspection with a washbasin;- service sanitary and hygienic facilities; - office of the border guard service shift supervisor for two computerized workplaces (2 computerized workplaces);- 2 border guard service premises (2 computerized workplaces each);- premise for placement of technical means for border control of the Gart-1 system, equipped with fire and security alarms, warning system (2 computerized workplaces);- premise of switch room of the border guard service;- office of the customs service shift supervisor (2 computerized workplaces);- 2 service premises of the customs service (2 computerized workplaces each);- premises for placement of technical means of customs control;- premise of switch room of the customs service- premise of the bank (1 person);- medical center premise (1 person);- boiler room;- storage room for cleaning facilities.Provide for air conditioning of the inspection room, switch rooms and service premises of the customs and border guard services.Provide for the possibility of building a duty-free store on the west side, taking into account the minimum volumes of electricity, water consumption and drainage required for its operation. Design points for connecting the future building of the duty-free shop to engineering networks of water and electricity supply (place in the designed service building with public toilets with the installation of a separate water metering unit, active and reactive electricity metering counter) as well as points for connection to domestic and storm sewer networks.**Public toilets**Provide for public toilets without a permanent workplace. Provide for the amount of plumbing equipment according to the calculation. Provide for measures to create favourable living conditions for the persons with disabilities in the premises of customs units in accordance with the requirements of DBN B.2.2-40:2018 "Inclusiveness of buildings and structures".Design public toilets, roof, exterior decoration as in service building. Provide for the interior decoration of the walls of public toilets with ceramic tiles or other cladding materials to the height of the premise up to the suspended ceiling. Provide for suspended ceilings of the Armstrong moisture-resistant type. Provide for the floors of all public toilets of ceramic tiles.Provide for the following facilities in public toilets:- vestibule;- men's toilets with a sluice;- women's toilets with a sluice;- mother and child's room;- universal sanitary and hygienic room for a group of citizens with limited mobility;- storage room for cleaning facilities.**Sheds over customs and passport control zones**Design sheds over all traffic lanes in the passport and customs control zone.Design the frame of the sheds of rolled steel profiles. Design the foundations according to the calculation and engineering and geological surveys. Provide for sheds’ covering of corrugated board. Design the cover of the lanterns of monolithic profiled polycarbonate sheets. Provide for the installation of inspection tables under the sheds for checking the luggage of persons crossing the border in accordance with the number of traffic lanes.Provide for cladding of steel structures of sheds of aluminum composite sheets on a frame made of aluminum profiles.**Box for in-depth inspection of motor vehicles** **at the entrance**Number of employees – 2 persons (computerized non-permanent workplaces: one - of the customs service, one - of the border guard service)Provide the in-depth inspection building for the inspection of buses, minibuses and cars. Design the box building as a one-story building with a combined ballastless roof with PVC membrane coating. Provide for the insulation of the roof with mineral wool plates.Design the frame building with a steel frame made of rolled profiles. Design the external walls of internal wall cassettes insulated with basalt slabs. Design partitions between rooms made of aerated concrete and plasterboard. Design the foundations according to the calculation and engineering and geological surveys. Provide for the external decoration of the walls with fiber-cement slabs on internal wall cassettes. Design external windows and evacuation exits of metal-plastic profiles with double-glazed windows. Design doors to service premises of metal-plastic profiles. Design steel fire doors with the ANTI-PANIC system in warehouse and technical premises, boxes. Provide for the arrangement of two industrial garage sectional lifting gates for through passage in the box for inspection of buses. Provide for sections of the gates of aluminum profiles, glazed. Provide for the gate with standard heat transfer resistance. Provide for the installation of one garage sectional lifting gate in the box for inspection of minibuses and cars. Provide for the gate sections of aluminum profiles, glazed. Provide for the gate with standard heat transfer resistance. Provide for all gates in the boxes with electric motors. Provide for opening of the gate through access control.Not provide for internal decoration of external walls of wall cassettes in box rooms. Provide for the finishing of aerated concrete walls in the boxes, in the room of the tire fitting equipment with ceramic tiles to a height of 2 m. Provide for the wall finishing in service premises with water-emulsion painting, in toilet facilities, shower room - facing with ceramic tiles to the entire height of the premises to the suspended ceiling, in a warehouse premise - with water-emulsion painting.Provide for the floors in the cabinets of industrial linoleum, in the boxes, the room for tire mounting equipment, in the room for temporary storage of confiscated items - concrete floor, in the toilet facilities, shower room, vestibule, boiler room - of ceramic tiles.Not provide for finishing the ceiling in the premises of boxes, tire fitting equipment, the premises of temporary storage of confiscated items. Provide for suspended cassette ceilings of the Armstrong type in service and auxiliary premises and moisture-resistant ones in technical premises and toilet facilities.Provide for the installation of two inspection tables for customs officers with a stainless steel surface for inspection of hand luggage and conveyor type X-ray equipment in the boxes. Provide for the installation of tire fitting equipment for buses, minibuses and cars and work tables in the premise of the tire fitting equipment. Provide for the installation of the compressor in a separate room. Provide for the installation of a personal computer with a multifunctional device, a computer table with a chair for each computerized workplace, wardrobe and bookcase in service premises. Provide for the installation of racks for confiscated items in the premises of temporary storage of confiscated items.Provide for the following premises in the box building:- box premise for inspecting buses (for one post with an inspection pit in which provide for lighting and ventilation);- box premise for inspection of minibuses and passenger cars (for one post with an inspection pit in which provide for lighting and ventilation);- premises for tire mounting equipment;- premises for temporary storage of confiscated items;- border guard service personnel premise for one computerized workplace;- customs service personnel premise for one computerized workplace;- premises for storing tools of the border guard service;- premises for storing tools of the customs service;- boiler room;- switch room;- compressor room;- toilet facilities;- shower room;- cleaning facilities premise.Provide for heating, lighting, ventilation, telephone, computer communication, a video camera for reading vehicle license plates in the box at the entrance, surveillance digital video cameras of the video surveillance system to ensure effective control over the inspection of vehicles.**Box for in-depth inspection of motor vehicles** **at the exit**Number of employees – 2 persons (computerized non-permanent workplaces: one - of the customs service, one - of the border guard service)Provide the in-depth inspection building for the inspection of buses, minibuses and cars. Design the box building as a one-story building with a combined ballastless roof with PVC membrane coating. Provide for the insulation of the roof with mineral wool plates.Provide the in-depth inspection building for the inspection of buses, minibuses and cars. Design the box building as a one-story building with a combined ballastless roof with PVC membrane coating. Provide for the insulation of the roof with mineral wool plates.Design the frame building with a steel frame made of rolled profiles. Design the external walls of internal wall cassettes insulated with basalt slabs. Design partitions between rooms made of aerated concrete and plasterboard. Design the foundations according to the calculation and engineering and geological surveys. Provide for the external decoration of the walls with fiber-cement slabs on internal wall cassettes. Design external windows and evacuation exits with the ANTI-PANIC system of metal-plastic profiles with double-glazed windows. Design doors to service premises of metal-plastic profiles. Design steel fire doors with the ANTI-PANIC system in warehouse and technical premises, boxes. Provide for the one industrial garage sectional lifting gates in the box. Provide for sections of the gates of aluminum profiles, glazed. Provide for the gate with standard heat transfer resistance. Provide for gates in the box with electric motor. Provide for opening of the gate through access control.Not provide for internal decoration of external walls of wall cassettes in box rooms. Provide for the finishing of aerated concrete walls in the boxes, in the room of the tire fitting equipment with ceramic tiles to a height of 2 m. Provide for the wall finishing in service premises with water-emulsion painting, in toilet facilities, shower room - facing with ceramic tiles to the entire height of the premises up to the suspended ceiling, in a warehouse premise - with water-emulsion painting.Provide for the floors in the cabinets of industrial linoleum, in the box, the room for tire mounting equipment, in the room for temporary storage of confiscated items - concrete floor, in the toilet facilities, shower room, vestibule, boiler room - of ceramic tiles.Not provide for finishing the ceiling in the premises of boxes, tire fitting equipment, compressor room, the premise of temporary storage of confiscated items. Provide for suspended cassette ceilings of the Armstrong type in service and auxiliary premises and moisture-resistant ones in technical premises and toilet facilities. Provide for the installation of inspection tables for customs officers with a stainless steel surface for inspection of hand luggage and conveyor type X-ray equipment in the boxes. Provide for the installation of tire fitting equipment for buses, minibuses and cars and work tables in the premise of the tire fitting equipment. Provide for the installation of the compressor in a separate room. Provide for the installation of a personal computer with a multifunctional device, a computer table with a chair for each computerized workplace, wardrobe and bookcase in service premises. Provide for the installation of racks for confiscated items in the premises of temporary storage of confiscated items. Provide for the following premises in the box building:- box premise for inspecting buses, minibuses and passenger cars (with an inspection pit for inspecting buses);- premises for tire mounting equipment;- premises for temporary storage of confiscated items;- border guard service personnel premise for one computerized workplace;- customs service personnel premise for one computerized workplace;- premises for storing tools of the border guard service;- premises for storing tools of the customs service;- boiler room;- switch room;- compressor room;- toilet facility;- shower room;- cleaning facilities premise.Provide for heating, lighting, ventilation, telephone, computer communication, a video camera for reading vehicle license plates in the box at the entrance, surveillance digital video cameras of the video surveillance system to ensure effective control over the inspection of vehicles.**Pavilion for passport and customs control** **(11 pcs).**The number of employees in each - 2including customs officers - 1 border guards - 1Design the pavilion without vestibules with two rooms each with one computerized workplace with separate entrances. Design the pavilion as a frame one of a steel frame made of rolled profiles. Design the walls and roof of sandwich panels with mineral wool filler. Design the foundations according to the calculation and engineering and geological surveys. Provide for the decoration of the walls of the pavilion premises by water-emulsion painting of putty plasterboard sheets on a frame made of galvanized profiles.Provide for a personal computer with a multifunctional device, a single-desk computer table with a chair in the pavilion premises.It is necessary to equip with heating, lighting, ventilation, air conditioning, telephone, computer communication, and provide for the customs officials of the State Customs Service who carry out customs clearance, the installation of readers of service cards of the State Customs Service officials with a digital keyboard for controlling the opening of barriers at the exit from the customs control zone (access control system) and installation of a surveillance digital video camera of the video surveillance system in the pavilion. Provide for a window in the partition for the possibility of transferring documents.**Checkpoint pavilion for one workplace (1 pcs.)**Design the pavilion without vestibules with one room with one computerized workplace. Design the pavilion as a frame one of a steel frame made of rolled profiles. Design the walls and roof of sandwich panels with mineral wool filler. Design the pavilion without a foundation. Provide for the decoration of the walls of the pavilion premises by water-emulsion painting of putty plasterboard sheets on a frame made of galvanized profiles.Provide for a personal computer with a multifunctional device, a single-desk computer table with a chair in the pavilion premises.Equip with heating, lighting, ventilation, air conditioning, telephone, computer communication. Provide for the possibility of controlling the opening of barriers at an automated workplace.**Checkpoint and checkpoint dispatcher pavilion (1 pcs.)**The number of employees - 2including customs officers - 1 border guards - 1Design the pavilion without vestibules with two rooms each with one computerized workplace with separate entrances. Design the pavilion as a frame one of a steel frame made of rolled profiles. Design the walls and roof of sandwich panels with mineral wool filler. Provide the pavilion without a foundation. Provide for the decoration of the walls of the pavilion premises by water-emulsion painting of putty plasterboard sheets on a frame made of galvanized profiles.Provide for a personal computer with a multifunctional device, a single-desk computer table with a chair in the pavilion premises.Equip with heating, lighting, ventilation, air conditioning, telephone, computer communication. Provide for the possibility of controlling the opening of barriers at an automated workplace.**Water tower.**Provide for the replacement of the existing water tower with a new one (capacity according to the calculation) with the installation of water pipes and the installation of automatic equipment (overflow protection).**Fire tanks**Design fire tanks with the calculated volume.**Fire pumping station**Design an underground fire pumping station according to the calculation.**Treatment facilities** according to the calculationProvide for the replacement of existing domestic and rainwater treatment facilities with new ones with a capacity according to the calculation.**Disinfectant barrier**It is located at the entrance to the checkpoint from both sides.Water intakereconstruction of the water intake with installation of a new well.**Transformer substation**Provide for:- complete replacement of electrical equipment;- internal and external facing;- replacement of the entrance door.**Diesel room**Provide for:- internal and external facing;- replacement of a diesel engine with a more powerful one (with automatic system activation, the power necessary to provide power for the entire checkpoint).- replacement of the entrance door.Design construction works as part of two start-up facilities as part of the project design in the **second stage**:Design a reconstruction as part of the **first start-up facility of the second stage**:* Existing bus station;
* Box of in-depth inspection;
* Warehouse of detained and confiscated items;
* Diesel room;
* Sheds (entrance - 4 traffic lanes near the bus station; exit - 4 traffic lanes near the bus station);
* Passport and customs control pavilions at entrance and exit - 4 (pcs.);
* The relevant part of the checkpoint territory (landscaping);
* Checkpoint pavilions (of border guards and customs officers) - 3 (pcs.);
* Container sites for the collection of closed type solid waste.

**Existing building of the bus station**The number of employees - 70including customs officers – 28 (all computerized workplaces) border guards – 7 (all computerized workplaces) others – 35 (16 of them are computerized workplaces)Provide for:- reconstruction of the roof with a drainage system;- renewal of coatings on load-bearing metal structures of the roof (anti-corrosion, fire-resistant, decorative);- external waterproofing of the foundation and insulation of the basement walls;- furnishing of facades;- insulation of facades;- modernization of the boiler room with replacement of boilers; - replacement of the heating system; - replacement of water supply and sewage systems;- reconstruction of the ventilation system;- replacement of electrical networks and lighting devices;- interior equipment of premises;- full replacement of floors;- reconstruction of toilet rooms;- replacement of external carpentry according to new requirements;- complete replacement of internal doors, complete replacement of external sliding doors;- provide for the installation of a personal computer with a multifunctional device, a computer table with a chair for each computerized workplace, wardrobe and bookcase in service premises;- provide for a chair, a wardrobe, a table with a chair and a washbasin in the room for personal inspection;- provide for the installation of racks in the premises of the archive and warehouses;- install benches in the waiting areas for drivers;- provide for the installation of a freight elevator between the first and basement floors;- reconstruction of the drainage system;- reconstruction of video surveillance, access control, KTM systems in accordance with the design specification developed with the application of the relevant regulatory documentation adopted in Ukraine;- gas fire extinguishing of the switch room;- chemical water treatment;- reconstruction of the fire alarm system.Provide air conditioning for server and office premises of customs and border guard services.Provide measures to create favourable conditions for the life of persons with disabilities. Provide for the installation of video surveillance cameras.**Box for in-depth inspection** Provide for:- 2 temporary computerized workplaces of customs officers;- replacing the roof drainage system;- replacement of pitched roof covering;- arrangement of the heating and ventilation system in accordance with the DBN; - replacement of gates with lifting, sectional, glazed ones, with standard heat transfer resistance, with electric motors, with opening from the access control system;- interior decoration of the premises;- reconstruction of motor vehicle maintenance pits;- replacement of floors;- insulation and furnishing of facades;- replacement of windows and doors according to new requirements;- roof insulation;- replacement of electrical networks;- reconstruction of video surveillance and access control systems in accordance with the design specification developed with the application of the relevant regulatory documentation adopted in Ukraine.- reconstruction of the water supply and drainage network;- installation of tire mounting equipment for trucks.Provide for the installation of CCTV cameras **Warehouse of detained and confiscated items.**Provide for:- one temporary computerized workplace;- replacement of the roof covering;- replacement of the floor construction;- partial replacement of sandwich wall panels;- reconstruction of the fire water piping;- installation of racks;- reconstruction of the fire alarm system.- replacement of cold storage and freezer equipmentProvide for the installation of CCTV cameras.**Sheds**Provide for:- reconstruction, covering of sheds using modern technologies that will ensure energy efficiency;- replacement of polycarbonate sheets on lanterns;- replacement of the drainage system from the coating;- renewal of coatings on the bearing metal structures of sheds and maintenance bridges (anti-corrosion, decorative);- arrangement of screens from cassettes made of aluminum composite material;- carry out electrical lighting under the sheds.**Passport and customs control pavilions**Provide for:- replacement of existing pavilions with the installation of 4 new double pavilions (2 - from the side of exit, 2 - from the side of entrance);- Provide for computerized workplaces for 8 people (4 customs officers, 4 border guards), heating (electric underfloor heating), lighting, ventilation, air conditioning, telephone and computer communication in the pavilions; provide for the possibility of controlling barriers at the exit from the customs control zone through the access control system and installation of CCTV cameras in the automated workplace of customs officers. Provide a personal computer with a multifunctional device, a single-desk computer table with a chair in the pavilion premises.**Checkpoint pavilion (3 pcs., two of them are double from the side of Ukraine).**Number of employees: border guards – 3, customs officers – 2.Design the pavilion without vestibules with two rooms each with one computerized workplace with separate entrances. Design the pavilion as a frame one of a steel frame made of rolled profiles. Design the walls and roof of sandwich panels with mineral wool filler. Design the foundation according to the calculation and engineering and geological surveys. Provide for the decoration of the walls of the pavilion premises by water-emulsion painting of putty plasterboard sheets on a frame made of galvanized profiles.Provide for a personal computer with a multifunctional device, a single-desk computer table with a chair in the pavilion premises, heating (electric underfloor heating), lighting, ventilation, air conditioning, telephone, computer communication; provide for the possibility of controlling barriers at the exit from the checkpoint through the access control system in the automated workplace of border guard officers.***Enclosures*** ***for service dogs (instead of existing ones).***Design frame enclosures for six service dogs of steel frame made of rolled profiles.Determine the foundation by the project design. Provide for the walls of the enclosures of wooden boards. Design the front wall of the enclosures from bars with the arrangement of gates for entering the enclosures. Provide for the wooden board floor raised above ground level. Provide for a roof made of steel profiled sheets. Provide for the arrangement of wooden dog houses and the installation of 6 metal cabinets for inventory.Design the following reconstruction **as part of the second start-up facility of the second stage**:* Sheds (entrance - 2 traffic lanes; exit - 2 traffic lanes);
* Passport and customs control pavilions for entrance and exit - 2 (pcs.);
* Weighing complex for dynamic weighing of trucks at the entrance with a shed and a pavilion;
* The relevant part of the checkpoint territory (landscaping);

**Sheds**Provide for:- reconstruction, covering of sheds using modern technologies that will ensure energy efficiency;- replacement of polycarbonate sheets on lanterns;- replacement of the drainage system from the coating;- renewal of coatings on the bearing metal structures of sheds and maintenance bridges (anti-corrosion, decorative);- carry out electrical lighting under the sheds.**Passport and customs control pavilions**Provide for:- Reconstruction of the weighing complex for dynamic weighing of trucks to ensure 100 percent weighting of trucks entering Ukraine;- Provide for computerized workplaces for 12 people (6 customs officers, 6 border guards), heating (electric underfloor heating), lighting, ventilation, air conditioning, telephone and computer communication in the pavilions; provide for the possibility of controlling barriers at the exit from the customs control zone through the access control system and installation of CCTV cameras in the automated workplace of customs officers. Provide a personal computer with a multifunctional device, a single-desk computer table with a chair in the pavilion premises.**Weighing complex.****Provide for:**- reconstruction of the weighing complex for dynamic weighing of trucks entering Ukraine with the replacement of one non-working scale, repair of the second working scale, and installation of a new third scale to ensure 100 percent weighing of trucks moving to enter Ukraine;- Reconstruction with extension of the shed of the weighing complex for the third scale;- reconstruction of the existing weighing pavilion with internal and external furnishing of the premises, installation of air conditioning, installation of 3 customs officers’ workplaces and equip each of them with a single-desk computer table with a chair, as well as install wardrobe and bookcase. |
|  | Requirements for construction site arranging and landscaping  | **Stage one:**Provide for:- design the covering of roads and sites in accordance with the requirements of DBN B.2.3-4-2015 DBN V.2.3-4:2015 "Automotive roads. Transport facilities. Part I. Part II." established for roads of the 3rd category.- provide for pavements’ and safety islands’ covering under sheds taking into account their cleaning using special grinding technique; - regulatory slopes of designed roads, platforms, pedestrian sidewalks, taking into account requirements for low-mobility groups of people; - the width of traffic lanes of all types of vehicles - 3 m;- arrangement of road asphalt pavement with arrangement of curbs;- installation of FEM coating under sheds and on sidewalks;- installation of lights for external electric lighting of the territory;- arrangement of a fenced site for 25 detained cars. Provide for a sectional fence with a height of min. 1.5 m of welded wire a diameter of 3 mm and cells of 50x200 mm. Provide for gates in the fence that can be opened through access control system;- arrangement of a site for 5 cars after passport and customs control at the entrance to Ukraine; arrangement of a site for two cars near public toilets in the entrance zone;- arrangement of a site for three passenger cars for passport and customs control in the exit zone; - installation of a steel sectional fence of the checkpoint territory with a height of min. 2.2 m of welded wire with diam. of 3 mm and cells of 50x200 mm;- installation of a steel sectional fence with a height of min. 2.2 m of welded wire with diam. of 3 mm and cells of 50x200 mm;- installation of a portable turnstile between the "red" and "green" corridors with a height of 0.5 m;- installation of sliding gates with electric motors with opening through the access control system;- installation of gates in fences with opening through the access control system;- installation of gates on the width of traffic lanes at the entrance to the checkpoint from the Ukrainian side;- installing additional traffic signs, traffic lights and barriers and connecting them to access systems;- installation of means of forced stopping of cars on all traffic lanes at the entrances and exits to the checkpoint; - installation of certified disinfectant barriers of carpet or irrigation type;- landscaping of the territory with sown lawns and decorative bushes;- installation of garbage cans at the entrances to buildings;- places of installation of information stands in accordance with the requirements of the customs and border guard services;- location for installation of radiation control racks on the master plan.**The second stage, the first start-up facility:**Provide for:- reconstruction of road concrete pavement with partial replacement of curbs;- partial replacement of FEM coatings under sheds and on sidewalks;- replacement of external electric lighting of the territory;- replacement of electric lighting cables;- reconstruction of the rainwater and domestic sewage system;- installing additional traffic signs, traffic lights and barriers and connecting them to access systems;- installation of tetrapods at the entrance and exit;- installation of certified disinfectant barriers of carpet or irrigation type;- landscaping and planting.- arrangement of passage to the scanning system for trucks moving out of Ukraine;**The second stage, the second start-up facility:**Provide for:- asphalting of the parking lot of official passenger cars, adjacent to the transformer and diesel generator room;- reconstruction of road concrete pavement with partial replacement of curbs;- partial replacement of FEM coatings under sheds and on sidewalks;- replacement of external electric lighting of the territory;- replacement of electric lighting cables;- revision and partial reconstruction of stormwater treatment facilities;- separation of traffic lanes (red and green corridor) with turnstiles 0.5 m high;- repair and painting of external and internal fences, gates and gates;- installing additional traffic signs, traffic lights and barriers and connecting them to access systems;- landscaping and planting.**Traffic lanes for cars and buses** should be at least 3.0 m wide and equipped with appropriate signs. |
| 17 | Requirements for engineering support of the object | The project design provides for the provision of the facility with all the necessary engineering networks in accordance with the technical specifications (TU) and current requirements, norms and rules **When designing, take into account the technical requirements for systems according to the appendices to the technical design specification, which are an integral part of it.**Prove for the installation of weighing complexes, scanning equipment, the creation of a video surveillance system with video surveillance subsystems, number-plate recognition; access control system, vehicle weighing and scanning systems in the project. Requirements for special engineering equipment are specified in the appendices to the technical design specification  |
| 18 | Requirements for inclusiveness | Complete the project design taking into account the requirements of DBN B.2.2-40:2018 "Inclusiveness of buildings and structures", regarding ensuring accessibility to buildings and structures and on the territory in accordance with technological requirements for all low-mobility groups of the population, including ones with disorders of the musculoskeletal system, moving in wheelchairs; |
| 19 | Requirements for engineering protection of territories and protection of houses, buildings and structures against dangerous natural or anthropogenic factors | According to the requirements of DBN B.1.1-24:2009 "Protection against dangerous geological processes. Basic provisions of design"DBN B.1.1-25-2009. "Engineering protection of territories and structures against flooding and flooding" and other norms, standards and rules. Implement the anthropogenic security section requirements. |
| 20 | Requirements for equipment | **Boxes for in-depth inspection of buses, cars and minibuses at the entrance and exit.**Provide for the installation of inspection tables for checking the luggage of persons crossing the border and work tables for the inspection of vehicles in the premises for the inspection of buses, minibuses and passenger cars.Provide for balancing and on-board machines for buses, minibuses and passenger cars (for the boxes of the section of passenger vehicles), work tables for tools in the premises for tire mounting equipment.Provide a compressor for tire mounting equipment and pneumatic tools in the compressor room.Provide for modular storage racks in the warehouse for temporary storage of confiscated items.Provide a computer desk, wardrobe and bookcases in the office premises of the customs and border guard services.Provide for a rack for tools in the rooms for storing tools.Provide for the installation of electronic scales up to 300 kg in boxes of in-depth inspection (one in each of the boxes in the area for passenger vehicles).Provide for the installation of a conveyor scanning system of a stationary type in accordance with the technical characteristics provided in the technical design specification (Appendix 1);**Service buildings**Provide for the installation of a conveyor scanning system of a stationary type in accordance with the technical characteristics provided in the technical design specification (Appendix 1);Provide for computer tables with chairs, wardrobe and bookcases inaccording to your jobs.**Other**- arrange (on both sides of the checkpoint) stationary means of forced traffic stop, disinfectant barriers in the area of the central entrance gate;arrange a protective delimitation of traffic lanes "red and green" corridor (for cargo - turnstiles, and medical - a fence);- arrange a metal fence around the perimeter of the checkpoint;- provide for places for setting up racks for radiological control at the entrances to the checkpoint;- provide for the installation of traffic lights and barriers at the entrances, exits to the checkpoint and on the traffic lanes;- provide the checkpoint with a diesel generator with the estimated power required to ensure the operation of the entire checkpoint.  |
| 21 | Requirements for the development of the “Environmental impact assessment” section | Develop as part of the project design. Take into account the requirements of the Law of Ukraine "On Environmental Impact Assessment". |
| 22 | Requirements for energy conservation and energy effectiveness | Take into account the requirements of the Law of Ukraine "On Energy Efficiency of Buildings", CMU Decree No. 260 of October 27, 2020 "On Approval of Minimum Requirements for Energy Efficiency of Buildings", DBN B 2.6-31:2016 "Thermal Insulation of Buildings". According to the requirements of regulatory documentation. |
| 23 | Requirements for the object fire protection systems | According to the requirements of regulatory documentation |
| 24 | Certificates, licenses and other permits, required for the implementation of the project, and their availability | The procedure for licensing of economic activities, related to the creation of architectural objects, is determined by the Resolution of the Cabinet of Ministers of Ukraine of May 23, 2011, No. 554 The corresponding qualification certificate (license for the development of urban planning documentation, license for architectural and engineering and construction design) is issued by the Certifying Architectural and Construction Commission of Ukraine in accordance with the order of the Ministry of Regional Development, Construction and Housing as of 25.06.2011, No. 93 (with amendments).In accordance with Article 20 of the Law of Ukraine of May 20, 1999, No. 687-XIV “On Architectural Activity”, foreigners and stateless persons who are legally present in Ukraine, enjoy the same rights in the implementation of architectural activities and bear the same responsibilities as citizens of Ukraine, unless otherwise provided by laws and international treaties of Ukraine, consent to be bound by the Verkhovna Rada of Ukraine. On the territory of Ukraine, foreigners and stateless persons, who have not received the relevant qualification certificate, can perform the works specified in Article 19 of this Law and participate in the development of urban planning documentation, design architectural objects and develop working documentation for construction only on the basis of contracts with business entities, which have a license to perform certain types of economic activities in construction, or with specialists, who have a qualification certificate.In accordance with Article 30 of the Law of Ukraine of May 20, 1999, No. 687-XIV “On Architectural Activities”, the author of the draft for the piece of architecture, urban planning, piece of park and garden work, has the exclusive right to make changes in unfinished construction or a constructed piece of architecture in the event of a change in its functional purpose or reconstruction.The supplier of the appropriate scanning systems should have:- A license issued by the State Nuclear Regulatory Inspectorate of Ukraine for the right to use sources of ionizing radiation (order of the State Nuclear Regulatory Inspectorate of Ukraine dated 06.08.2012, No. 153);- A permit issued by the State Sanitary and Epidemiological Service of the Ministry of Health of Ukraine to handle radioactive substances and other sources of ionizing radiation (order of the Ministry of Health of Ukraine dated 02.02.2005, No. 54).Scanning systems shall comply with the radiation safety standards of Ukraine NRBU-97, approved by the Order of the Ministry of Health of Ukraine dated 14.07.1997, No. 208, which were put into effect on 01.01.1998 by the Resolution of the Chief State Sanitary Doctor of Ukraine - First Deputy Minister of Health of Ukraine dated 01.12.1997, No. 62In the absence of the above-mentioned permits, licenses and certificates, a letter of guarantee from the participant with an obligation to make them available until the conclusion of the contract. |
| 25 | Data on technologies and (or) research works proposed by the customer | 60% of materials and equipment must be of Polish origin, but must be certified in Ukraine. Their manufacturer must have a representative office with a service center in Ukraine. |
| 26 | Requirements for the safety and health regime | In accordance with the requirements of the regulatory documentation, taking into account the requirements of the Customs Code and the Law of Ukraine on the State Border and the Resolution of the Cabinet of Ministers of Ukraine dated May 21, 2012 No. 451 "Issues of passage through the state border of persons, road, water, railway, and air vehicles of carriers and goods moved by them. |
| 27 | Requirements for the development of special measures | Provide for Traffic organization project in the project design.Provide for an autonomous security perimeter alarm system in the project design. |
| 28 | Technical examination | To examine the technical condition of existing buildings, structures and linear facilities of the engineering and transport infrastructure. To carry out dimensional drawings of the existing infrastructure of the checkpoint in a volume sufficient for design in accordance with the requirements of the design specification and the conclusions of examinations of the technical condition of existing buildings, structures and linear facilities of the engineering and transport infrastructure. |
| 29 | Requirements for the creation of demonstration materials,drawings. | According to DBN A.2.2-3-2014 - two printed copies in Ukrainian, and provide a copy of the project design on an electronic medium; files in PDF format (drawings), DOC (explanatory note) and AVK or similar software complex (estimates). |
| 30 | Requirements for the development of the section of engineering and technical measures of civil protection (civil defense) | According to the requirements of regulatory documentation  |
| 31 | Purpose of non-residential floors | **International automobile crossing checkpoint** (cars, trucks and buses) |
| 32 | List of houses, buildings and structures, linear objects of engineering and transport infrastructure, which are designed as part of the facility | First stage:* 5 traffic lanes for cars and minibuses at the exit;
* 6 traffic lanes for cars and minibuses at the entrance;
* 2 traffic lanes for diplomats;
* 2 traffic lanes for buses at the entrance and exit;
* 2 boxes for in-depth inspection for buses, cars and minibuses (one each at the entrance and exit);
* service buildings for 18 workplaces at the exit;
* public toilets - at the exit;
* service buildings for 20 workplaces with public toilets at the entrance;
* 2 modular checkpoint pavilions;
* 11 modular customs and passport control pavilions;
* sheds over control zones;
* water tower;
* domestic sewage treatment facilities;
* fire tanks according to calculation;
* fencing of territory;
* disinfection barrier;
* landscaping;
* container sites for the collection of closed type solid waste.

The second stage:The first start-up facility (reconstruction of):* Existing bus station;
* Box for in-depth inspection;
* Warehouse of detained and confiscated goods;
* Transformer substation;
* Diesel room;
* Sheds (entrance - 4 traffic lanes near the bus station; exit - 4 traffic lanes near the bus station);
* Passport and customs control pavilions at entrance and exit - 4 (pcs.);
* The relevant part of the checkpoint territory (landscaping);
* Checkpoint pavilions (for border guards and customs officers) - 3 (pcs.);
* Container sites for the collection of closed type solid waste.

The second start-up facility (reconstruction of):* Sheds (entrance - 6 traffic lanes; exit - 6 traffic lanes);
* Passport and customs control pavilions at entrance and exit - 6 (pcs);
* Weighing complex;
* The relevant part of the checkpoint territory (landscaping);
 |
| 33 | Requirements for determining the estimated value | Develop the estimated documentation in hryvnias in accordance with the DBN.Take into account in the estimate documentation funds to cover additional costs associated with inflationary processes and risks.Provide for additional funds for work in the winter and summer periods.Not provide for funds for maintenance of the Customer's service and technical supervision.Include the prices for materials and transportation distances in the estimate documentation after approval by the construction Customer.  |
| 34 | Requirements for the number of project copies issued  | Provide project documentation: one hard copy form (with original approvals), one e-copy (CD, DVD or USBFlashDrive), and one archival hard copy (kept by the designer). |

**STAGE II**

**PRELIMINARY TECHNICAL AND ECONOMIC INDICATORS**

**І START-UP FACILITY OF THE**

**OBJECT “Construction of area for passenger vehicles and buses in the checkpoint for road traffic “Krakivets” on the Ukrainian-Polish border”.**

of the “Krakovets” international automobile crossing checkpoint

 54-61, M. Verbytskogo Str., Krakovets, Krakovets, Yavoriv district, Lviv region

|  |  |  |  |
| --- | --- | --- | --- |
| **Ser.****No.** | **Name of work** | **Measurement****units** | **Quantity** |
| **1** | **2** | **3** | **4** |
| **1** | **Checkpoint category** | - | International for automobile crossing |
| **2** | **Consequence class**  | - | Clarify CC2 by the calculation according to the project design |
| **3** | **Land area** | ha | 11 |
| **4** | **Throughput capacity of**  |  |  |
|  |  **passengers** | persons/day | 8420 |
|  |  **cars** | vehicles/day | 3100 |
|  |  **buses** | vehicles/day | 100 |
| **5** | **Previous main types and scope of work** |  |  |
|  | **Arrangement of traffic lanes for cars and minibuses at the exit.** | pcs. | 5 |
|  | **Arrangement of traffic lanes for cars and minibuses at the entrance.** | pcs. | 6 |
|  | **Arrangement of traffic lanes for diplomats at the entrance and exit.** | pcs. | 2 |
|  | **Arrangement of 2 traffic lanes for buses at the entrance and exit.** | pcs. | 4 |
|  | **Construction of service buildings for 20 and 18 workplaces at the entrance and exit** | No. | 2  |
|  | **Construction of sheds over customs and passport control zones** | m2 | Above the traffic lanes |
|  | **Construction of vehicle boxes for in-depth inspection of vehicles.** | No. | 2 |
|  | **Construction of checkpoint pavilions** | No. | 2 |
|  | **Construction of passport and customs control pavilions** | No. | 11 |
|  | **Construction of public toilets** | No. | Calculation according to the project design |
|  | **Arrangement of a disinfection barrier** |  | At the entrance |
|  | **Arrangement of sewage treatment facilities** |  | Calculation according to the project design |
|  | **Reconstruction of rainwater treatment facilities** | m3/day | according to the project design |
|  | **Replacement of the water tower** |  | 1 |
|  | **Arrangement of fire tanks** |  | Calculation according to the project design |
|  | **Reconstruction of the transformer substation** | m3 | 1111,3  |
|  | **Furnishing the diesel room, diesel engine replacement** | kW | Calculation according to the project design |
|  | **Telephone and computer communication** |  | According to the project design |
|  | **Construction of a structured cable system**  |  | According to the project design |
|  | **Arrangement of video surveillance system with number-plate recognition and access control subsystems** |  | According to the project design |
|  | **Arrangement of fencing and lighting of territories** |  | According to the project design |
|  | **Landscaping (planting, sidewalks)** | pcs. | According to the project design |
|  | **Arrangement of fire and security alarm systems** |  | According to the project design |
|  | **Road traffic organization** | ha | 11 |
| **6** | **Provide for the creation of favourable conditions for persons with disabilities in all buildings** | - | According to the project design |
|  | **- ramps in front of the entrances;**  | pcs. | According to the project design |
|  | **- special toilet room for persons with disabilities.**  | pcs. | According to the project design |

**PRELIMINARY TECHNICAL AND ECONOMIC INDICATORS**

**IІ STAGE**

**FIRT AND SECOND START-UP FACILITIES OF THE**

**OBJECT “Reconstruction of the infrastructure of the Ukrainian part of the existing checkpoint “Krakivets” on the Ukrainian-Polish border”**

Of the “Krakovets” international automobile crossing checkpoint

 54-61, M. Verbytskogo Str., Krakovets, Krakovets, Yavoriv district, Lviv region

|  |  |  |  |
| --- | --- | --- | --- |
| **Ser.****No.** | **Name of work** | **Measurement****units** | **Quantity** |
| **1** | **2** | 3 | 4 |
| **1** | **Checkpoint category** | - | International for automobile crossing  |
| **2** | **Consequence class** | - | Clarify ССІІ by the calculation according to the project design |
| **3** | **Land area** | ha | 11 |
| **4** | **Throughput capacity of trucks**  | vehicles/day | 1300 |
| **5** | **Previous main types and scope of work** |  |  |
|  | **Reconstruction of the existing bus station** | m3 | 19199,4(approximate h=3,0 m); |
|  | **Reconstruction of the vehicle box for in-depth inspection** | m3 | 3000,0 |
|  | **Reconstruction of the storage facility for arrested and confiscated goods** | m3 | 5711 (approximate h=5,6 м) |
|  | **Reconstruction of the weighing** **complex with expansion** | pcs. | 3 |
|  | **Reconstruction of the sheds** | m2 | 8883,0 |
|  | **Replacement of passport and customs control pavilions** | pcs. | 10 |
|  | **Replacement of the checkpoint and customs dispatcher pavilions** | pcs. | 3 |
|  | **Finishing of the checkpoint territory, road traffic organization** | ha | 11 |
|  | **Arrangement of video surveillance system with number-plate recognition and access control subsystems** |  | According to the project design |
|  | **Fencing overhaul** | lineal metres | 1560,0 |

**TENTATIVE CALENDAR PLAN**

|  |  |  |
| --- | --- | --- |
| **Item No.** | **STAGE** | **Tentative terms\*** |
| **І** | **Development of design and estimate documentation** з on the “Construction of the section for cars and buses (1 start-up facility) and restoration (reconstruction) of existing section of truck transport checkpoint (2 stage)” | **8 months** |
|  | * development of design and estimate documentation
 | 6 months |
|  | * review of design and estimate documentation
 | 1 month |
|  | * approval of design and estimate documentation
 | 1 month |
| **ІІ** | **Construction work**  |  |
|  | **І start-up facility** “Construction of a section for cars and buses at the “Krakovets” automobile crossing checkpoint on the Ukrainian-Polish border” | **16 months** |
|  | Preparatory work | 2 months |
|  | Construction work | 12 months |
|  | Commissioning | 1 month |
|  | Commissioning of the І start-up facility | 1 month |
|  | **II start-up facility** “Reconstruction of infrastructure of Ukrainian part of existing “Krakovets” automobile crossing checkpoint on the Ukrainian-Polish border” | **16 months** |
|  | **First start-up facility** |  |
|  | Construction work | 6 months |
|  | Commissioning | 1 month |
|  | Commissioning of the І start-up facility | 1 month |
|  | **Second start-up facility** |  |
|  | Construction work | 6 months |
|  | Commissioning | 1 month |
|  | Commissioning of the ІI start-up facility | 1 month |

**\* terms of design and construction work are to be calculated during preparation of design and estimate documentation**