Додаток (Annex) 1

до договору на виконання робіт з проектування та будівництва

(to the agreement the performance of design and construction works)

№ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ від (dated) \_\_\_.\_\_\_\_. 2024

**ІНФОРМАЦІЯ ПРО НЕОБХІДНІ ТЕХНІЧНІ, ЯКІСНІ ТА КІЛЬКІСНІ ХАРАКТЕРИСТИКИ ПРЕДМЕТА ЗАКУПІВЛІ В ТОМУ ЧИСЛІ НЕОБХІДНА ТЕХНІЧНА СПЕЦИФІКАЦІЯ**

**ТЕХНІЧНІ, ЯКІСНІ ТА КІЛЬКІСНІ ХАРАКТЕРИСТИКИ ПРЕДМЕТА ЗАКУПІВЛІ**

**Склад робіт**

Будівельні роботи:

* І пусковий комплекс «Реконструкція міжнародного пункту пропуску для автомобільного сполучення «Шегині». Ділянка виїзду з України;
* ІІ пусковий комплекс «Реконструкція міжнародного пункту пропуску для автомобільного сполучення «Шегині». Ділянка в’їзду в Україну.

У рамках виконання будівельних робіт передбачено улаштування систем відеоконтролю (СВК), зчитувння номерних знаків (СЗНЗ), контролю доступу (СКУД), структурованої кабельної мережі (СКМ), вагових комплексів (в тому числі пусконалагоджувальні роботи), автоматичної установки охоронної сигналізації (АУОС), автоматичної установки охоронної периметральної сигналізації (АУОПС).

Об’єми робіт та відомість основних будівельних конструкцій, виробів і матеріалів і обладнання зазначаються в технічній специфікації, що додається.

Розрахунковий термін будівництва 26 місяців.

У будь-який час виконання робіт Обсяг будівельних робіт може бути змінений Замовником в інтересах виконання проекту, в тому числі у разі необхідності виконання додаткових робіт, шляхом внесення змін до цього Договору. При цьому, обсяги та види робіт, Договірна ціна, а також терміни виконання предмету Договору уточняються Сторонами після проходження експертизи зазначених змін/додаткових робіт та затвердження Замовником проектно-кошторисної документації щодо зазначених змін/додаткових робіт.

**ПЕРШИЙ ПУСКОВИЙ КОМПЛЕКС**

Техніко-економічні показники по забудові

Таблиця 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Поз. | Найменування | Один.  виміру | Кількість | Прим. |
| 1 | Площа ділянки в межах благоустрою | га | 2,8803 |  |
| 2 | - площа забудови  в т.ч. проектованої | га  га | 0,4941  0,4467 |  |
| 3 | - площа замощення: | га | 1,4387 |  |
| 4 | - площа озеленення | га | 1,2498 |  |

Техніко-економічні показники по будівлях і спорудах

Таблиця 2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Номер на ГП | Найменування | Поверховість | Кількість | Площа забудови, м2 | Загальна площа, м2 | Корисна площа, м2 | Заг. площа приміщень, м2 | Будівельний об’єм, м3 |
| 1 | Службова будівля з громадськими туалетами на виїзді з України | 1 | 1 | 511,66 | 456,65 | 421,97 | 421,97 | 2034,90 |
| 3 | Бокс поглибленого огляду транспортних засобів зі складом для затриманих вантажів | 1 | 1 | 398,88 | 371,20 | 344,16 | 344,16 | 1939,18 |
| 4.1 | Навіс над зонами паспортного та митного контролю на виїзд з України | - | 1 | 1065,27 | - | - | - | 1231,65 |
| 4.2 | Навіс над зонами паспортного та митного контролю на виїзд з України | - | 1 | 1523,22 | - | - | - | 1745,10 |
| 7 | Склад затриманих та конфіскованих товарів | 1 | 1 | 233,38 | 200,67 | 177,76 | 177,76 | 990,14 |
| 9.1 | Павільйон паспортного та митного контролю | 1 | 1 | 19,62 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.6 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.7 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.8 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.9 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.10 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.11 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 10 | Павільйон КПП | 1 | 1 | 9,79 | 6,00 | 6,00 | 6,00 | 25,28 |
| 11 | Павільйон КПП | 1 | 1 | 19,62 | 12,36 | 12,00 | 12,00 | 46,66 |
| 14.1 | Сепаратор нафтопродуктів | - | 1 | 4,52 | - | - | - | 7,68 |
| 15 | Пожежний резервуар | - | 2 | 48 | - | - | - | 108,00 |
| 16 | Очисні споруди господарсько-побутових стоків | - | 1 | 90,43 | - | - | - | 328,26 |
| 17 | КНС господарсько-побутових стоків | - | 1 | 1,54 | - | - | - | 4,46 |
| 18 | Протипожежна насосна станція | - | 1 | 4,52 | - | - | - | 9,94 |
| 19 | Трансформаторна підстанція | 1 | 1 | 134,04 | 113,48 | 102,12 | 102,12 | 622,93 |
| 27 | Ваговий комплекс для динамічного зважування вантажних автомобілів на виїзді з України | - | 1 | 11,93 | - | - | - | 13,12 |
| 28 | Павільйон вагового комплексу на виїзді з України | 1 | 1 | 10,25 | 6,00 | 6,00 | 6,00 | 25,28 |
| 31 | Вольєри на дві службові собаки | 1 | 1 | 15,00 | 14,09 | 13,90 | 13,90 | 34,50 |
| 36 | Дизель-генератор | - | 1 | 7,00 | - | - | - | - |
| Всього | |  | 4190,51 | 1266,97 | 1167,91 | 1167,91 | 9601,70 |  |

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## ДРУГИЙ ПУСКОВИЙ КОМПЛЕКС

Техніко-економічні показники по забудові

Таблиця 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Поз. | Найменування | Один.  виміру | Кількість | Прим. |
| 1 | Площа ділянки в межах благоустрою | га | 1,8281 |  |
| 2 | - площа забудови  в т.ч. проектованої | га  га | 0,5102  0,4967 |  |
| 3 | - площа замощення: | га | 1,1194 |  |
| 4 | - площа озеленення | га | 0,4918 |  |

Техніко-економічні показники по будівлях і спорудах

Таблиця 4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Номер на ГП | Найменування | Поверховість | Кількість | Площа забудови, м2 | Загальна площа, м2 | Корисна площа, м2 | Заг. площа приміщень, м2 | Будівельний об’єм, м3 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 2 | Службова будівля на в’їзді в Україну | 2 | 1 | 1140,93 | 4735,00 | 1327,30 | 1393,20 | 12765,0 |
| 5.1 | Навіс над зонами паспортного та митного контролю на в’їзд в Україну | 1 | 1 | 1297,67 | - | - | - | 1567,40 |
| 5.2 | Навіс над зонами паспортного та митного контролю на в’їзд в Україну | 1 | 1 | 1859,69 | - | - | - | 2107,69 |
| 6 | Бокс поглибленого огляду транспортних засобів зі складом для затриманих вантажів | 1 | 1 | 398,88 | 371,20 | 344,16 | 344,16 | 1939,18 |
| 8 | Павільйон паспортного контролю та диспетчера митниці | 1 | 1 | 18,18 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.2 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.3 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.4 | Павільйон паспортного та митного контролю | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.5 | Павільйон паспортного та митного контролю | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.12 | Павільйон паспортного та митного контролю | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.13 | Павільйон паспортного та митного контролю | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.14 | Павільйон паспортного та митного контролю | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 12 | Ваговий комплекс для динамічного зважування вантажних автомобілів на в’їзді в Україну | - | 1 | 11,93 | - | - | - | 13,12 |
| 13 | Павільйон вагового комплексу на в’їзді в Україну | 1 | 1 | 9,31 | 6,00 | 6,00 | 6,00 | 25,28 |
| 14.2 | Сепаратор нафтопродуктів | - | 1 | 4,52 | - | - | - | 7,68 |
| 29 | Громадські туалети на в’їзді в Україну | 1 | 1 | 94,29 | 78,66 | 70,34 | 70,34 | 343,18 |
| Всього | |  |  | 4967,46 | 5289,74 | 1844,00 | 1909,70 | 19141,81 |

**ПОТРЕБА ОСНОВНИХ БУДІВЕЛЬНИХ МАШИН ТА УСТАТКУВАННЯ**

Таблиця 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № з/п | Найменування | Марка | Кількість | Технічна характеристика |
| **1-й пусковий комплекс** | | | | |
|  | Екскаватор навантажувач | JСB4CX | 2 | потуж. 96.0 к.с, ємн. ковша 0,6 м3 |
|  | Екскаватор навантажувач обладнаний гідромолотом | JСB4CX | 1 | потуж. 96.0 к.с, |
|  | Екскаватор гусенечний обладнаний гідромолотом | Doosan dx 255 | 1 | потуж. 129 кВт |
|  | Екскаватор гусеничний | JCB JS220LC | 1 | ємн. ковша 1,0 м3 |
|  | Каток дорожній | ДУ-85 | 1 | Маса 13,0т |
|  | Каток дорожній | XCMG XS263 | 1 | Маса 25,0т |
|  | Бульдозер | Cat D4 | 1 | потуж.95 кВт (128 л. с.) |
|  | Бетоноукладальник дорожній | GOMACO GP4 | 1 |  |
|  | Тексторувальник | T/C-600 | 1 |  |
|  | Шворіжчик для бетону |  | 1 |  |
|  | Автомобільний кран | КТА-25 | 1 | в/п 25,0 т |
|  | Автомобільний кран на спец шасі | GROVE GMK 2035 | 1 | в/п 35,0 т |
|  | Бетононасос | PUTZMEISTER M 36-4 | 1 | прод.40,0м3/год |
|  | Вилковий навантажувач | MANITOU MT-X 1840 | 2 | в/п 4,0 т |
|  | Машина поливально-мийна |  | 1 |  |
|  | Автотранспорт самоскидний | ТАТРА 815 | 3 | потуж.210,0 к.с, в/п 23,0 т |
|  | автотранспорт бортовий | ЗИЛ 130 | 2 | потуж.146,0 к.с, в/п 6,0 т |
|  |  | КазАЗ 65117-6010-23 | 2 | потуж.300,0 к.с в/п 14,5 т |
|  | Пересувна компрес. станція | ПКС-5 | 2 | продук. 5,0 м3/хв |
|  | Електрозварювальний апарат | Патон ПСІ-250S DC | 2 | потуж. 11,0 кВт |
|  | Кутова шліфувальна машина | Makita GA 9020RF 2200w | 5 | потуж. 2,2 кВт |
|  | Перфоратор | Makita HR2810 | 6 | потуж. 0,8 кВт |
|  | Міксер будівельний | Makita М6600 | 3 | потуж. 0,8 кВт |
|  | Розчиномішалка | СБП-120 | 2 | потуж. 1,5 кВт |
|  | Віброплита | OSCAR KMR-100 | 1 | потуж. 3,5 к.с. вага 80,0кг |
|  | Вібратор | ИВ–117А | 2 | потуж. 1,0 кВт |
|  | Фекальний насос | WQD 15-15-1.5 | 4 | потуж. 1,5 кВт |
|  | Зварювальний апарат для поліетиленових труб | WIDOS 4900 | 2 |  |
|  | Тахеометр | TOPCON GPT 3007 LN | 1 |  |
|  | Голкофільтрова установка |  | 2 |  |
| **2-й пусковий комплекс** | | | | |
|  | Екскаватор навантажувач | JSB4CX | 1 | потуж. 96.0 к.с, ємн. ковша 0,6 м3 |
|  | Екскаватор колісний | ATLAS 150 W | 1 | ємн. ковша 0,6 м3 |
|  | Міні-екскаватор | JCB 8030 ZTS | 1 | ємн. ковша 0,11 м3 |
|  | Екскаватор гусенечний обладнаний гідромолотом | Doosan dx 255 | 1 | потуж. 129 кВт |
|  | Каток дорожній | ДУ-85 | 1 | Маса 13,0т |
|  | Каток дорожній | XCMG XS263 | 1 | Маса 25,0т |
|  | Бульдозер | Cat D4 | 1 | потуж.95 кВт (128 л. с.) |
|  | Бетоноукладальник дорожній | GOMACO GP4 | 1 |  |
|  | Тексторувальник | T/C-600 | 1 |  |
|  | Шворіжчик для бетону |  | 1 |  |
|  | Автомобільний кран | КТА-25 | 1 | в/п 25,0 т |
|  | Бетононасос | PUTZMEISTER M 36-4 | 1 | прод.40,0м3/год |
|  | Автомобільний кран на спец шасі | GROVE GMK 2035 | 1 | в/п 35,0 т |
|  | Вилковий навантажувач | MANITOU MT-X 1840 | 1 | в/п 4,0 т |
|  | Машина поливально - мийна |  | 1 |  |
|  | Автотранспорт самоскидний | ТАТРА 815 | 2 | потуж.210,0 к.с, в/п 23,0 т |
|  | автотранспорт бортовий | ЗИЛ 130 | 1 | потуж.146,0 к.с, в/п 6,0 т |
|  |  | КазАЗ 65117-6010-23 | 2 | потуж.300,0 к.с в/п 14,5 т |
|  | Пересувна компрес. станція | ПКС-5 | 1 | продук. 5,0 м3/хв |
|  | Електрозварювальний апарат | Патон ПСІ-250S DC | 1 | потуж. 11,0 кВт |
|  | Кутова шліфувальна машина | Makita GA 9020RF 2200w | 4 | потуж. 2,2 кВт |
|  | Голкофільтрова установка |  | 1 |  |
|  | Перфоратор | Makita HR2810 | 5 | потуж. 0,8 кВт |
|  | Міксер будівельний | Makita М6600 | 3 | потуж. 0,8 кВт |
|  | Розчиномішалка | СБП-120 | 2 | потуж. 1,5 кВт |
|  | Віброплита | OSCAR KMR-100 | 1 | потуж. 3,5 к.с. вага 80,0кг |
|  | Вібратор | ИВ–117А | 1 | потуж. 1,0 кВт |
|  | Фекальний насос | WQD 15-15-1.5 | 2 | потуж. 1,5 кВт |
|  | Зварювальний апарат для поліетиленових труб | WIDOS 4900 | 2 |  |
|  | Тахеометр | TOPCON GPT 3007 LN | 1 |  |

**ОРГАНІЗАЦІЙНО-ТЕХНОЛОГІЧНА СХЕМА БУДІВНИЦТВА**

Технологічна послідовність будівництва 1-й пусковий комплекс

Таблиця 6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| № з/п | Найменування робіт | 1 рік | | | | | | | | | | | | | | | | | | | | | | | 2 рік |
| І кв. | | | | | ІІ кв. | | | | | | ІІІ кв. | | | | | | ІV кв. | | | | | | І кв. |
| 1 міс. | | 2 міс. | 3 міс. | | 4 міс. | | 5 міс. | | 6 міс. | | 7 міс. | | 8 міс. | | 9 міс. | | 10 міс. | | 11 міс. | | 12 міс. | | 13 міс. |
| 1 | 2 | 3 | | 4 | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 |
| **І** | **Підготовчі роботи** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 1 | Підготовлення території будівництва. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 2 | Електротехнічні рішення Демонтаж Павільйони №8; 9.1 - 9.14; 10; 11; 13; 28 по гп. (Перший-Другий пусковий комплекс) |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 3 | Системи відеоконтролю і комп’ютерних мереж. Винос та перевлаштування кабелів зв'зку на території МАПП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| **ІІ** | **Об'єкти основного призначення** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 4 | Службова будівля з громадськими туалетами на виїзді з України №1 по гп. (Перший пусковий комплекс). |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 5 | Бокс поглибленого огляду на виїзді з України №3 по гп. (Перший пусковий комплекс) |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 6 | Навіс над зонами паспортного і митного контролю на виїзді з України №4.1 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 7 | Навіс над зонами паспортного і митного контролю на виїзді з України №4.2 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 8 | Павільйон паспортного та митного контролю №9.1 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 9 | Павільйон паспортного та митного контролю №9.6 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 10 | Павільйон паспортного та митного контролю №9.7 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 11 | Павільйон паспортного та митного контролю № 9.8 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 12 | Павільйон паспортного та митного контролю №9.9 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 13 | Павільйон паспортного та митного контролю №9.10 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 14 | Павільйон паспортного та митного контролю №9.11 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 15 | Системи протипожежного захисту Павільйони №9.1; 9.6 - 9.11; №10; №11; №28 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 16 | Павільйон КПП №10 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 17 | Павільйон КПП №11 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 18 | Ваговий комплекс для динамічного зважування вантажних автомобілів на виїзді з України №27 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 19 | Павільйон вагового комплексу на виїзді з України №28 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **ІІІ** | **Об'єкти пiдсобного та обслуговуючого призначення** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 20 | Вольєри на дві службові собаки №31 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 21 | Склад затриманих та конфіскованих товарів №7 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **ІV** | **Об'єкти енергетичного господарства** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 22 | Трансформаторна підстанція №19 за г.п |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 23 | Зовнішні мережі автоматизації |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 24 | Зовнішнє електропостачання |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 25 | Дизель-генератор №36 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **V** | **Об'єкти транспортного господарства i зв'язку** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 26 | Системи відеоконтролю і комп’ютерних мереж |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **VІ** | **Зовнiшнi мережi та споруди водопостачання, водовідведення, теплопостачання та газопостачання** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 27 | Сепаратор нафтопродуктів №14.1 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 28 | Пожежний резервуар №15 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 29 | Очисні споруди господарсько-побутових стоків №16 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 30 | КНС господарсько-побутових стоків №17 за гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 31 | Протипожежна насосна станція №18 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 32 | КНС дощових стоків №30 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 33 | Водопровід В-1 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 34 | Водопровід В-2 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 35 | Зовнішні мережі побутової каналізації -К-1-. Самоплинна |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 36 | Зовнішні мережі дощової каналізації -К-2-. Самоплинна |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 37 | Зовнішні мережі напірної побутової каналізації -Кн-1 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 38 | Зовнішні мережі напірної дощової каналізації -Кн-2 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 39 | Газифікація об’єкту |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **VІІ** | **Благоустрiй та озеленення територiї** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 40 | Вертикальне планування території. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 41 | Підпірна стінка ПС-1 №34 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 42 | Огородження території |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 43 | Замощення території. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 44 | Озеленення території |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 45 | Організація дорожнього руху |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 46 | Інші роботи та витрати |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| Графік руху працюючих | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | 118 (робочих),22 (ІТП, службовці, охорона) | | | | | | | | | | | | | | | | | | | | | | |
| Нормативна продукт. праці БМР на одного працюючого на місяць 162,4 тис.грн. | | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | | | Графік руху працюючих: 118+22 = 140 чол. | | | | | | | | | | | | | | | | | | | | | | |

Технологічна послідовність будівництва 2-й пусковий комплекс

Таблиця 7

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| № з/п | Найменування робіт | 1 рік | | | | | | | | | | | | | | | | | | | | | | | 2 рік |
| І кв. | | | | | ІІ кв. | | | | | | ІІІ кв. | | | | | | ІV кв. | | | | | | І кв. |
| 1 міс. | | 2 міс. | 3 міс. | | 4 міс. | | 5 міс. | | 6 міс. | | 7 міс. | | 8 міс. | | 9 міс. | | 10 міс. | | 11 міс. | | 12 міс. | | 13 міс. |
| 1 | 2 | 3 | | 4 | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 |
| **І** | **Підготовчі роботи** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 1 | Підготовлення території будівництва. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **ІІ** | **Об'єкти основного призначення** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 2 | Службова будівля на в'їзді в Україну №2 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 3 | Навіс над зонами паспортного і митного контролю на в'їзд в Україну  №5.1 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 4 | Навіс над зонами паспортного і митного контролю на в'їзд в Україну №5.2 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 5 | Бокс поглибленого огляду на в'їзді в Україну №6 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 6 | Павільйон паспортного контролю та диспетчера митниці №8 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 7 | Павільйон паспортного та митного контролю № 9.2 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 8 | Павільйон паспортного та митного контролю № 9.3 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 9 | Павільйон паспортного та митного контролю № 9.4 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 10 | Павільйон паспортного та митного контролю № 9.5 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 11 | Павільйон паспортного та митного контролю №9.12 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 12 | Павільйон паспортного та митного контролю №9.13 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 13 | Павільйон паспортного та митного контролю № 9.14 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 14 | Системи протипожежного захисту Павільйони №8; 9.2 - 9.5; 9.12 - 9.14;№13 по гп. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 15 | Ваговий комплекс №12 за ГП для динамічного зважування вантажних  автомобілів на виїзд з України. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 16 | Павільйон вагового комплексу на в'їзді в Україну №13 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **ІІІ** | **Об'єкти пiдсобного та обслуговуючого призначення** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 17 | Громадські туалети на в'їзді в Україну №29 по гп |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| **ІV** | **Об'єкти енергетичного господарства** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 18 | Зовнішні мережі автоматизації |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 19 | Зовнішнє електропостачання |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **V** | **Об'єкти транспортного господарства i зв'язку** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 20 | Системи відеоконтролю і комп’ютерних мереж |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **VІ** | **Зовнiшнi мережi та споруди водопостачання,**  **водовідведення, теплопостачання та газопостачання** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 21 | Сепаратор нафтопродуктів №14.2 за ГП. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 22 | Водопровід В-1 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 23 | Водопровід В-2 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 24 | Зовнішні мережі побутової каналізації -К-1-. Самоплинна |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 25 | Зовнішні мережі дощової каналізації -К-2-. Самоплинна |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **VІІ** | **Благоустрiй та озеленення територiї** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 26 | Вертикальне планування території. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 27 | Підпірна стінка ПС-3 №38 за ГП |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 28 | Огородження території |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 29 | Озеленення території |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 30 | Організація дорожнього руху |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 31 | Дизбар'єр |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 32 | Інші роботи та витрати |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| Графік руху працюючих | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | 122(робочих), 22 (ІТП, службовці, охорона) | | | | | | | | | | | | | | | | | | | | | | |
| Нормативна продукт. праці БМР на одного працюючого на місяць 135,27 тис.грн. | | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | | | Графік руху працюючих: 122+22 = 144 чол. | | | | | | | | | | | | | | | | | | | | | | |

**INFORMATION ON THE NECESSARY TECHNICAL, QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF THE SUBJECT OF PURCHASE, INCLUDING THE NECESSARY TECHNICAL SPECIFICATION**

**TECHNICAL, QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF THE SUBJECT OF PURCHASE**

**The works includes**

Construction works:

- the first launch complex «Reconstruction of the Shehyni international checkpoint for road». Departure from Ukraine section;

- the second launch complex «Reconstruction of the Shehyni international checkpoint for road». Entry Ukraine.

As part of the construction works, it is planned to install video surveillance systems (VSS), license plate readers (LPR), access control (AC), structured cable network (SCN), weighing systems (including commissioning works), automatic security alarm system (ASAS), automatic installation of security perimeter alarm system (AISPAS).

The scope of work and the list of the main construction structures, products and materials and equipment are indicated in the attached technical specification.

The estimated construction period is 26 months.

At any time during the performance of the works, The scope of construction works may be changed by the Customer in the interests of the project implementation, including in case of necessity to perform additional works, by amending this Agreement. In this case, the scope and types of works, the Contract Price, as well as the terms of performance of the subject matter of the Agreement shall be specified by the Parties after passing the expertise examination of the said changes/additional works and approval by the Customer of the basic design and cost estimation documentation with respect to the said changes/additional works

**The first start-up complex**

Technical and economic indicators for construction.

Table 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Position** | **Name** | **Measure unit** | **Number** | **Notes** |
| **1** | The area of the plot within the improvement | **hectars** | **2,8803** |  |
| **2** | - building area  including designed | hectars  hectars | **0,4941**  **0,4467** |  |
| **3** | - paving area: | hectars | **1,4387** |  |
| **4** | - landscaping area | hectars | **1,2498** |  |

Technical and economic indicators for buildings and structures

Table 2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No on the general plan | Name | Number of levels | number | Building area, m2 | Total area, m2 | Usable area, m2 | General area of premises, m2 | The construction volume, m3 |
| 1 | Service building with public toilets on the way out of Ukraine | 1 | 1 | 511,66 | 456,65 | 421,97 | 421,97 | 2034,90 |
| 3 | Box of in-depth inspection of vehicles with a warehouse for delayed cargo | 1 | 1 | 398,88 | 371,20 | 344,16 | 344,16 | 1939,18 |
| 4.1 | Canopy above passport and customs control zones for departure from Ukraine | - | 1 | 1065,27 | - | - | - | 1231,65 |
| 4.2 | Canopy above passport and customs control zones for departure from Ukraine | - | 1 | 1523,22 | - | - | - | 1745,10 |
| 7 | Inventory of detained and confiscated goods | 1 | 1 | 233,38 | 200,67 | 177,76 | 177,76 | 990,14 |
| 9.1 | Passport and customs control pavilion | 1 | 1 | 19,62 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.6 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.7 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.8 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.9 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.10 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.11 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 10 | Checkpoint pavilion | 1 | 1 | 9,79 | 6,00 | 6,00 | 6,00 | 25,28 |
| 11 | Checkpoint pavilion | 1 | 1 | 19,62 | 12,36 | 12,00 | 12,00 | 46,66 |
| 14.1 | Separator of petroleum products | - | 1 | 4,52 | - | - | - | 7,68 |
| 15 | Fire tank | - | 2 | 48 | - | - | - | 108,00 |
| 16 | Treatment facilities for household waste | - | 1 | 90,43 | - | - | - | 328,26 |
| 17 | Taxation of economic and domestic wastes | - | 1 | 1,54 | - | - | - | 4,46 |
| 18 | Fire pump station | - | 1 | 4,52 | - | - | - | 9,94 |
| 19 | Transformer substation | 1 | 1 | 134,04 | 113,48 | 102,12 | 102,12 | 622,93 |
| 27 | Weighing complex for dynamic weighing of trucks on departure from Ukraine | - | 1 | 11,93 | - | - | - | 13,12 |
| 28 | Pavilion of the weight complex on departure from Ukraine | 1 | 1 | 10,25 | 6,00 | 6,00 | 6,00 | 25,28 |
| 31 | Aviaries for two service dogs | 1 | 1 | 15,00 | 14,09 | 13,90 | 13,90 | 34,50 |
| 36 | Diesel generator | - | 1 | 7,00 | - | - | - | - |
| Total | |  | 4190,51 | 1266,97 | 1167,91 | 1167,91 | 9601,70 |  |

## The second start-up complex

Technical and economic indicators for construction

Table 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Position** | **Name** | **Measure unit** | **Number** | **Notes** |
| **1** | The area of the plot within the improvement | **hectars** | **1,8281** |  |
| **2** | - building area,  incl. designed | hectars hectars | **0,5102**  **0,4967** |  |
| **3** | - paving area: | hectars | **1,1194** |  |
| **4** | - landscaping area | hectars | **0,4918** |  |

Technical and economic indicators for buildings and structures

Table 4

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No on the general plan | Name | Number of levels | number | Building area, m2 | Total area, m2 | Usable area, m2 | General area of premises, m2 | The construction volume, m3 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 2 | Service building at the entrance to Ukraine | 2 | 1 | 1140,93 | 4735,00 | 1327,30 | 1393,20 | 12765,0 |
| 5.1 | Canopy over passport and customs control zones for entry into Ukraine | 1 | 1 | 1297,67 | - | - | - | 1567,40 |
| 5.2 | Canopy over passport and customs control zones for entry into Ukraine | 1 | 1 | 1859,69 | - | - | - | 2107,69 |
| 6 | Box of in-depth inspection of vehicles with a warehouse for delayed cargo | 1 | 1 | 398,88 | 371,20 | 344,16 | 344,16 | 1939,18 |
| 8 | Pavilion of passport control and customs dispatcher | 1 | 1 | 18,18 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.2 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.3 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.4 | Passport and customs control pavilion | 1 | 1 | 19,14 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.5 | Passport and customs control pavilion | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.12 | Passport and customs control pavilion | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.13 | Passport and customs control pavilion | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 9.14 | Passport and customs control pavilion | 1 | 1 | 18,66 | 12,36 | 12,00 | 12,00 | 46,66 |
| 12 | Weighing complex for dynamic weighing of trucks at the entrance to Ukraine | - | 1 | 11,93 | - | - | - | 13,12 |
| 13 | The weight complex pavilion at the entrance to Ukraine | 1 | 1 | 9,31 | 6,00 | 6,00 | 6,00 | 25,28 |
| 14.2 | Separator of petroleum products | - | 1 | 4,52 | - | - | - | 7,68 |
| 29 | Public toilets at the entrance to Ukraine | 1 | 1 | 94,29 | 78,66 | 70,34 | 70,34 | 343,18 |
| Total | |  |  | 4967,46 | 5289,74 | 1844,00 | 1909,70 | 19141,81 |

**NEED FOR BASIC CONSTRUCTION MACHINES AND EQUIPMENT**

Table 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Name | Mark | Number | Technical characteristics |
| **1st launch complex** | | | | |
|  | Excavator loader | JСB4CX | 2 | power 96.0 hp, volume bucket 0.6 m3 |
|  | The backhoe loader is equipped with a hydraulic hammer | JСB4CX | 1 | power 96.0 hp, |
|  | The crawler excavator is equipped with a hydraulic hammer | Doosan dx 255 | 1 | power 129 kW |
|  | Crawler excavator | JCB JS220LC | 1 | capacity bucket 1.0 m3 |
|  | Road rink | ДУ-85 | 1 | Weight 13.0 tons |
|  | Road rink | XCMG XS263 | 1 | Weight 25.0 tons |
|  | Bulldozer | Cat D4 | 1 | power 95 kW (128 hp) |
|  | Road concrete paver | GOMACO GP4 | 1 |  |
|  | Texturizer | T/C-600 | 1 |  |
|  | Seam cutterfor concrete |  | 1 |  |
|  | Car crane | КТА-25 | 1 | carrying capacity 25.0 t |
|  | A mobile crane on a special chassis | GROVE GMK 2035 | 1 | carrying capacity 35.0 t |
|  | Concrete pump | PUTZMEISTER M 36-4 | 1 | production 40.0 m3/hour |
|  | Forklift | MANITOU MT-X 1840 | 2 | carrying capacity 4.0 t |
|  | Watering and washing machine |  | 1 |  |
|  | Dump truck | TATRA 815 | 3 | power 210.0 hp, engine capacity 23.0 tons |
|  | on-board vehicles | ZIL 130 | 2 | power 146.0 hp, engine capacity 6.0 tons |
|  |  | KamAZ 65117-6010-23 | 2 | power: 300.0 hp, engine capacity: 14.5 tons |
|  | Mobile compress. station | PKS-5 | 2 | product 5.0 m3/min |
|  | Electric welding machine | Paton ПСІ-250S DC | 2 | power 11.0 kW |
|  | Angle grinder | Makita GA 9020RF 2200w | 5 | power 2.2 kW |
|  | Perforator | Makita HR2810 | 6 | power 0.8 kW |
|  | Construction mixer | Makita М6600 | 3 | power 0.8 kW |
|  | Dissolving mixer | SBP-120 | 2 | power 1.5 kW |
|  | Vibrating plate | OSCAR KMR-100 | 1 | power 3.5 hp weight 80.0 kg |
|  | Vibrator | ИВ–117А | 2 | power 1.0 kW |
|  | Fecal pump | WQD 15-15-1.5 | 4 | power 1.5 kW |
|  | Welding machine for polyethylene pipes | WIDOS 4900 | 2 |  |
|  | Tacheometer | TOPCON GPT 3007 LN | 1 |  |
|  | Needle filter installation |  | 2 |  |
| **2nd launch complex** | | | | |
|  | Excavator loader | JSB4CX | 1 | power 96.0 hp, volume bucket 0.6 m3 |
|  | Wheeled excavator | ATLAS 150 W | 1 | capacity bucket 0.6 m3 |
|  | Mini excavator | JCB 8030 ZTS | 1 | capacity bucket 0.11 m3 |
|  | The crawler excavator is equipped with a hydraulic hammer | Doosan dx 255 | 1 | power 129 kW |
|  | Road rink | ДУ-85 | 1 | Weight 13.0 tons |
|  | Road rink | XCMG XS263 | 1 | Weight 25.0 tons |
|  | Bulldozer | Cat D4 | 1 | power 95 kW (128 hp) |
|  | Road concrete paver | GOMACO GP4 | 1 |  |
|  | Texturizer | T/C-600 | 1 |  |
|  | Seam cutter for concrete |  | 1 |  |
|  | Car crane | КТА-25 | 1 | carrying capacity 25.0 t |
|  | Concrete pump | PUTZMEISTER M 36-4 | 1 | production 40.0 m3/hour |
|  | A mobile crane on a special chassis | GROVE GMK 2035 | 1 | carrying capacity 35.0 t |
|  | Forklift | MANITOU MT-X 1840 | 1 | carrying capacity 4.0 t |
|  | Watering and washing machine |  | 1 |  |
|  | Dump truck | TATRA 815 | 2 | power 210.0 hp, engine capacity 23.0 tons |
|  | on-board vehicles | ZIL 130 | 1 | power 146.0 hp, engine capacity 6.0 tons |
|  |  | KamAZ 65117-6010-23 | 2 | power: 300.0 hp, engine capacity: 14.5 tons |
|  | Mobile compress. station | ПКС-5 | 1 | product 5.0 m3/min |
|  | Electric welding machine | Патон ПСІ-250S DC | 1 | power 11.0 kW |
|  | Angle grinder | Makita GA 9020RF 2200w | 4 | power 2.2 kW |
|  | Needle filter installation |  | 1 |  |
|  | Perforator | Makita HR2810 | 5 | power 0.8 kW |
|  | Construction mixer | Makita М6600 | 3 | power 0.8 kW |
|  | Dissolving mixer | СБП-120 | 2 | power 1.5 kW |
|  | Vibrating plate | OSCAR KMR-100 | 1 | power 3.5 hp weight 80.0 kg |
|  | Vibrator | IB–117А | 1 | power 1.0 kW |
|  | Fecal pump | WQD 15-15-1.5 | 2 | power 1.5 kW |
|  | Welding machine for polyethylene pipes | WIDOS 4900 | 2 |  |
|  | Tacheometer | TOPCON GPT 3007 LN | 1 |  |

**ORGANIZATIONAL AND TECHNOLOGICAL SCHEME OF CONSTRUCTION**

Technological sequence of construction of the 1st start-up complex

Table 6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Works name | 1 year | | | | | | | | | | | | | | | | | | | | | | | 2 year |
| І quarter | | | | | ІІ quarter. | | | | | | ІІІ quarter. | | | | | | ІV quarter. | | | | | | І quarter |
| 1 month | | 2 month | 3 month | | 4 month | | 5 month | | 6 month | | 7 month | | 8 month | | 9 month | | 10 month | | 11 month | | 12 month | | 13 month |
| 1 | 2 | 3 | | 4 | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 |
| **І** | **Preparatory works** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 1 | Preparation of the construction area. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 2 | Electrical solutions Dismantling Pavilion No. 8; 9.1 - 9.14; 10; 11; 13; 28 according to the general plan (First-Second launch complex) |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 3 | Video control systems and computer networks. Removal and rearrangement of communication cables on the territory of the complex |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| **ІІ** | **Objects of the main purpose** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 4 | Service building with public toilets on the way out of Ukraine No. 1 according to the general plan. (The first launch complex). |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 5 | Box of in-depth inspection on departure from Ukraine No. 3 according to the general plan. (The first launch complex) |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 6 | Canopy over the passport and customs control zones at the exit from Ukraine No. 4.1 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 7 | Canopy over the passport and customs control zones at the exit from Ukraine No. 4.2 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 8 | Passport and customs control pavilion No. 9.1 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 9 | Passport and customs control pavilion No. 9.6 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 10 | Passport and customs control pavilion No. 9.7 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 11 | Passport and customs control pavilion No. 9.8 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 12 | Passport and customs control pavilion No. 9.9 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 13 | Passport and customs control pavilion No. 9.10 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | Passport and customs control pavilion No. 9.11 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 14 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 15 | Fire protection systems of Pavilions No. 9.1; 9.6 - 9.11; No. 10; No. 11; No. 28 according to general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 16 | Checkpoint No. 10 pavilion according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 17 | Checkpoint No. 11 pavilion according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 18 | Weighing complex for dynamic weighing of trucks on departure from Ukraine No. 27 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 19 | Pavilion of the weight complex on departure from Ukraine No. 28 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **ІІІ** | **Objects of auxiliary and service purpose** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 20 | Aviaries for two service dogs No. 31 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 21 | Storage of detained and confiscated goods No. 7 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **ІV** | **Energy objects** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 22 | Transformer substation No. 19 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 23 | External automation networks |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 24 | External power supply |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 25 | Diesel generator No. 36 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **V** | **Objects of transport and communication** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 26 | Video control systems and computer networks |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **VІ** | **External networks and structures of water supply, drainage, heat supply and gas supply** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 27 | Separator of petroleum products No. 14.1 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 28 | Fire tank No. 15 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 29 | Wastewater treatment facilities No. 16 according to the master plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 30 | sewage pumping station for domestic sewage No. 17 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 31 | Fire pump station No. 18 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 32 | sewage pumping station of storm drains No. 30 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 33 | Water pipe B-1 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 34 | Water pipe В-2 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 35 | External networks of household sewage -K-1-. Self-flowing |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 36 | External storm sewer networks -K-2-. Self-flowing |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 37 | External pressure domestic sewage networks -Kn-1 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 38 | External networks of pressurized storm sewers -Kn-2 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 39 | Gasification of the object |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| **VІІ** | **Landscaping and greening of the territory** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| 40 | Vertical planning of the territory. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 41 | Retaining wall PS-1 No. 34 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 42 | Fencing of the territory |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 43 | Paving the territory. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 44 | Landscaping of the territory |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 45 | Organization of traffic |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| 46 | Other works and expenses |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
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| Work schedule | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | 118 (workers), 22 (engineering and technical personnel, employees, security) | | | | | | | | | | | | | | | | | | | | | | |
| Standard labor productivity of construction and installation works per one worker per month is 162.4 thousand UAH. | | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | | | Work schedule: 118+22 = 140 people. | | | | | | | | | | | | | | | | | | | | | | |

Technological sequence of construction of the 2nd start-up complex

Table 7

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Works name | 1 year | | | | | | | | | | | | | | | | | | | | | | 2 year | |
| І quarter | | | | | ІІ quarter | | | | | | IІІ quarter. | | | | | | ІV quarter. | | | | | І quarter | |
| 1 month | | 2 month | 3 month | | 4 month | | 5 month | | 6 month | | 7 month | | 8 month | | 9 month | | 10 month | | 11 month | | 12 month | 13 month | |
| 1 | 2 | 3 | | 4 | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | 15 | |
| **І** | **Preparatory works** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 1 | Preparation of the construction area. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| **ІІ** | **Objects of the main purpose** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 2 | Service building at the entrance to Ukraine No. 2 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 3 | Canopy over passport and customs control zones for entry into Ukraine  No. 5.1 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 4 | Canopy over the passport and customs control zones for entry into Ukraine No. 5.2 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 5 | Box of in-depth examination at the entrance to Ukraine No. 6 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 6 | Pavilion of passport control and customs dispatcher No. 8 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 7 | Passport and customs control pavilion No. 9.2 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 8 | Passport and customs control pavilion No. 9.3 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 9 | Passport and customs control pavilion No. 9.4 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 10 | Passport and customs control pavilion No. 9.5 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 11 | Passport and customs control pavilion No. 9.12 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 12 | Passport and customs control pavilion No. 9.13 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 13 | Passport and customs control pavilion No. 9.14 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 14 | Fire protection systems of Pavilions No. 8; 9.2 - 9.5; 9.12 - 9.14; No. 13 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 15 | Weighing complex No. 12 according to the general plan for dynamic weighing of trucks for departure from Ukraine. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 16 | Pavilion of the weighing complex at the entrance to Ukraine No. 13 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| **ІІІ** | **Objects of auxiliary and service purpose** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 17 | Public toilets at the entrance to Ukraine No 29 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| **ІV** | **Energy objects** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 18 | External automation networks |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 19 | External power supply |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| **V** | **Objects of transport and communication** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 20 | Video control systems and computer networks |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| **VІ** | **External networks and structures of water supply, drainage, heat and gas supply** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 21 | Separator of petroleum products No. 14.2 according to the general plan. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 22 | Water pipe B-1 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 23 | Water pipe B-2 |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 24 | External networks of household sewage -K-1-. Self-flowing |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 25 | External networks of household sewage -K-2-. Self-flowing |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| **VІІ** | **Landscaping and greening of the territory** |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
| 26 | Vertical planning of the territory. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 27 | Retaining wall PS-3 No. 38 according to the general plan |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 28 | Fencing of the territory |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 29 | Paving the territory. |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 30 | Landscaping of the territory |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 31 | Organization of traffic |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| 32 | Other works and expenses |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  | |
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| Work schedule | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | 122 (workers), 22 (engineering and technical personnel, employees, security) | | | | | | | | | | | | | | | | | | | | | | |
| Standard labor productivity of construction and installation works per one worker per month is 135,27 thousand UAH. | | |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |  |
|  | | | Work schedule: 122+22 = 144 people. | | | | | | | | | | | | | | | | | | | | | | |

Технічна специфікація визначена в додатку 1 до цього додатку.

The technical specification is defined in Appendix 1 to this Appendix.

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| Директор Департаменту матеріально-технічного забезпечення та управління Державним майном Державної митної служби України/  Director of the Department of Logistics and State Property Management of the State Customs Service of Ukraine  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Валерій Жалдак /  Valerіy Zhaldak |  |