



Port Network Plan and Improvement  
Programme:  
Renovation of the Ferry Terminals of Baku  
and Turkmenbashi

**Tender Documents (Draft)**  
**Ferry Terminal, Turkmenbashi**  
**October 1997**

**VOL III.i, The Works, Bill of Quantities**

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## 1. INTRODUCTION

The Tender Documents for the civil and building works for renovation of the Ferry Terminal in Turkmenbashi comprise the following documents:

VOL. I	The Tender
VOL. II	The Contract
VOL. III.i	The Works, Bill of Quantities
VOL. III.ii	The Works, Specifications
VOL. III.iii	The Works, Drawings

The present volume III.i of the Tender Documents, being subject of the Bill of Quantities, comprises the method of measurements, the schedule of rates and the bill of quantities for the execution of the works as well as a summary of costs of works.

The present document is available both in English and in Russian with English being the contractual language of the project.

In case if any discrepancy between the English version and the Russian version, the English version prevails.



## 2. BILL OF QUANTITIES

### 2.1 Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The Bill of Quantities comprises two categories of items, namely "fixed items" and "variable items".
  - i. "Fixed items" means items for which the total price is fixed and shall not be subject to any changes whatsoever (except adjustments according to clauses 51, 52 and 70 of Part 1, Contract Conditions). The payment will be based on the ratio between the quantity of work carried out to the total amount of work tendered and multiplied by the total price for this item. The Bidder may change the quantities indicated under these items in the priced Bill of Quantities in accordance with the opinion of the Bidder.
  - ii. "Variable items" marked by \* in the Bill of Quantities means items for which payment will be based on the exact quantity of work carried out, which may be zero, and multiplied by the unit price for this item.

Provisional/optional items are also marked with \*.

4. The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
5. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
6. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work. No claims whatsoever for additional payments will be allowed for any error, misunderstanding, omission or lack of foresight by the Bidder of the works and obligations involved.

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7. General directions and descriptions of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering prices against each item in the priced Bill of Quantities. When an item is mentioned, it shall thus mean that said item shall be supplied and delivered, manufactured if necessary, and correctly installed and finished, including usual auxiliary material, etc., unless otherwise explicitly stated.
8. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 52.4 and Clause 58 of Part I of the Conditions of Contract.
9. Unless stated or billed otherwise, quantities of completed works will be measured in accordance with the "Standard Method of Measurement" issued by the Institution of Civil Engineers, London (1976), and are net as they are finished and fixed in the Works according to final drawings approved by the Engineer. The rates and prices shall include whatever allowance is considered by the Contractor to be necessary for waste, working area, construction slopes, batters, etc.
10. Errors will be corrected by the Employer for any arithmetic errors in computation or summation as follows:
  - (a) where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and
  - (b) where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit price and the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected.
11. The items of work included in the Bill of Quantities are numbered in sections following the numbering of the different specialities in section 3 of VOL III.ii, Technical Specifications.
12. Abbreviations

The following abbreviations are used in the Bill of Quantities, Tender and Contract Forms:

mm	=	millimetre
m	=	linear meter
m <sup>2</sup>	=	square meter
m <sup>3</sup>	=	cubic meter
l	=	litre
kg	=	kilogram
mpa	=	megapascals = N/mm <sup>2</sup>
t	=	metric tonne (1000 kg)
tm	=	tonne metre
dia	=	nominal diameter
no.	=	complete unit or piece
do	=	ditto

n. e.	=	not exceeding
Dwg.	=	drawing
h	=	hour
wk	=	week
mon	=	month
ha	=	hectare
LS	=	lump sum
PS	=	provisional sum
AZM	=	Azerbaijan Manat
USD	=	U. S. Dollar

## 2.2 Bill of Quantities

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2.3 SUMMARY BOQ

Summary Bill of Quantities, Turkmenbashi

Bill No.	Item	Subject	Tender Price in USD incl. taxes, duties, etc.
00		Mobilisation, Geotechnical Investigations	
<b>01</b>		<b>Terminal Area Arrangement</b>	
01	02	Demolition	
01	03	Earthworks	
01	07	Masonry Works	
01	11	Finishing works	
01	12	Electrical Installations	
01	13	Water supply/sewerage/heating	
01	14	Paving and Road Works	
<b>02</b>		<b>Marine Works</b>	
02	02	Demolition	
02	03	Earthworks, Dredging	
02	04	Stone and Rubble Works	
02	05	Pile Works	
02	06	Concrete Works	
02	08	Steel Works	
02	12	Electrical Installations	
02	13	Water Supply / Sewerage	
02	14	Paving and Road Works	
02	15	Quay Equipment	
<b>03</b>		<b>Ramps and Towers</b>	
03	07	Masonry Works	
03	08	Steel works	
03	09	Timber Works	
03	12	Electrical Installations/Controls	
03	16	Railtrack Works	
03	17	Machinery and Equipment	
05		Modification of Passenger Terminal	
06		Border Control Building	
07		Ticketing Building	
08		Public Services Building	
09		Passenger Bridge	
<b>Total Tender Price</b>			



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**Bill No.: 00. - Mobilisation, Geotechnical Investigations**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>00</b>	<b>Mobilization, Demobilization, site</b>				
00.001	Mobilization incl. setting up camp, temporary power and water, etc. (not to exceed 10 % of the tender)	LS	-	-	
00.002	Demobilization incl. cleaning up	LS	-	-	
00.003	Running costs of site	LS	-	-	
00.004	Engineer's office	LS	-	-	
00.005	Furniture and equipment in Engineer's office	LS	-	-	
00.006	Survey equipment for Engineer	LS	-	-	
00.007	Vehicle with driver for Engineer	LS	-	-	
00.008	Other items (to be specified)				
<b>01</b>	<b>Geotechnical Investigations</b>				
	Mobilisation, demobilisation on site	-	-	-	-
01.101	Mob. and demob. of all personnel and personnel facilities	LS	-		
01.102	Mob. and demob. of on-site laboratory	LS	-	-	
01.103	Mob. and demob. of on-shore drill-rig	LS	-	-	
01.104	Mob. and demob. of off-shore drill-rig	LS	-	-	
	Drilling operations, on-shore	-	-	-	-
01.201	Mob. and demob at boring location (land)	nos.	11		
01.202	Boring 0-5 m below ground surface	m	55		
01.202	Boring 5-10 m below ground surface	m	55		
01.203	Boring 10-15 m below ground surface	m	20		
01.204	Boring 15-20 m below ground surface	m	10		
01.205	Sampling, disturbed	nos.	130		
01.206	Sampling, undisturbed	nos.	50		
01.207	In-situ testing.		-	-	-
	01. Vane test	nos.	50		
	02. SPT	nos.	50		
	03. CPT	m	100		
	04. Other types. (To be specified)				
01.208	Standpipes	m	75		
01.211	Mob. and demob at boring location (pier)	nos.	2		
01.212	Boring 0-5 m below sea bed	m	10		
01.212	Boring 5-10 m below sea bed	m	10		
01.213	Boring 10-15 m below sea bed	m	10		
01.214	Boring 15-20 m below sea bed	m	10		
01.215	Sampling, disturbed	nos.	40		
01.216	Sampling, undisturbed	nos.	15		
	Subtotal (Carry to next page)				

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**Bill No.: 00. - Mobilisation, Geotechnical Investigations**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
01.217	In-situ testing.	-	-	-	-
	01. Vane test	nos.	30		
	02. SPT	nos.	30		
	03. CPT	m	30		
	04. Other types. (To be specified)				
	Drilling operations, off-shore				
01.221	Mob. and demob. at boring location	nos.	5		
01.222	Boring 0-5 m below sea bed	m	25		
01.222	Boring 5-10 m below sea bed	m	25		
01.223	Boring 10-15 m below sea bed	m	25		
01.224	Boring 15-20 m below sea bed	m	15		
01.225	Sampling, disturbed	nos.	80		
01.226	Sampling, undisturbed	nos.	30		
01.227	In-situ testing.		-	-	-
	01. Vane test	nos.	40		
	02. SPT	nos.	40		
	03. CPT	m	60		
	04. Other types. (To be specified)				
	Laboratory investigations	-	-	-	-
01.301	Geological description of samples	nos.	335		
01.302	Moisture content	nos.	200		
01.303	Bulk density	nos.	100		
01.304	Atterberg limits	nos.	30		
01.305	Sieve analysis	nos.	30		
01.306	Hydrometer analysis	nos.	15		
01.307	Oedometer tests	nos.	10		
01.308	Unconfined compression tests	nos.	20		
01.309	Consolidated undrained triaxial tests	nos.	10		
01.400	Reporting	LS			
01.500	Other items (to be specified)	-	-	-	-
	Total (Carry to summary bill No. 00)				

All costs for works mentioned in the Technical Specifications and shown on the Drawings shall be included in the Bill of Quantities.

As an example, setting out of boring locations, survey of coordinates and levels can be included in item 01.2x1.

Items not covered by mentioned items shall be added and specified under item 01.500.

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**Bill No.: 01, Terminal Area Arrangement**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>02</b>	<b><u>Demolition works</u></b>				
02.001*	Dismantling/demolition of building No. 1 (according to specifications) including cleaning of the area and transportation of debris to approved dump as described in specifications	LS	-	-	
02.002*	The same for building No. 2	LS	-	-	
02.003*	The same for building No. 3	LS	-	-	
02.004*	The same for building No. 4	LS	-	-	
	<b><u>Additional Demolition</u></b>				
02.011*	Demolition of concrete building works	m3	-	-	-
02.012*	Demolition of brickwork/light structures	m3	-	-	-
02.013*	Loading of building rubbish on truck	m3	-	-	-
02.014*	Transportation and stacking of debris in depot on site	m3	-	-	-
02.015*	Transportation of the building debris to approved dump site	m3	-	-	-
02.020	Other items (to be specified)				
	Total (Carry to summary bill No. 01 - item No. 02)				
<b>03</b>	<b><u>Earthworks</u></b>				
	<b>Reclamation of sea area</b> (see Bill 02, item 3.12)				
	<b>Land area</b>				
03.001	Topographic survey of land area (excl. rail shunting yard)	ha	10.8		
03.002*	Clearance of site of land fill for vegetation, debris and top-soil and removal from site	m2	5000		
3.003	Filling up land filling area incl. levelling and compaction	m3	44280		
03.004*	Excavation of excess soil in excavation area and removal from site	m3	1600		
03.005	Topographic survey after completion of works	ha	5,6		
	<b><u>Additional Earthworks</u></b>				
03.007*	Excavation of soil on site and transportation to depot on site	m3	-	-	-
03.008*	Excavation of soil on site and transportation to approved dumping site	m3	-	-	-
03.009*	Loading and backfilling of soil from site depot to excavation site	m3	-	-	-
03.010*	Levelling and compaction of filling layers of 20 cm	m3	-	-	-
03.015	Other items (to be specified)				
	Total (Carry to summary bill No. 01 - item No. 03)				

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## Bill No.: 01, Terminal Area Arrangement

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>07</b>	<b>Masonry Works</b>				
	<b>Retaining walls, inspection pits</b>				
07.001	Execution from pre-cast RC blocks ÖÄÄ 24-6,6	no	59		
07.002	The same, ÖÄÄ 9-6.6	no	238		
07.003	The same, ÖÄÄ 12-6.6	no	238		
07.004	The same, ÖÄÄ 24-4.6	no	238		
07.005	Plastering of the retaining walls	m2	280		
07.006	Installation of guiding edge strips for machines from steel pipes, d=50 mm	m	60		
07.011	Others (to be specified)				
	Total(Carry to summary bill No. 01 - item No. 07)				
<b>11</b>	<b>Finishing works</b>				
	<b>Retaining walls, Inspection Pits</b>				
11.001	Perchlorumvinil painting of the retention walls	m2	280		
11.002	Facing of walls with ceramic tiles, in pits	m2	75		
11.003	Others (to be specified)				
	Total (Carry to summary bill No. 01 - item No. 11)				
<b>12</b>	<b>Electrical Installations</b>				
	<b>Site power supply</b>				
12.001	Laying of cable weighing up to 1 kg/m including trenching works, safety bricks covering, etc.	m	1520		
12.002	The same, weighing up to 3 kg/m	m	90		
12.003	The same, weighing up to 6 kg/m	m	380		
12.004	Laying of wire in steel pipes, d=100 m, crossing under road areas, etc.	m	20		
12.005	The same for asbestos cement pipes, d=100 mm	m	45		
12.006	The same for vinyl plastic pipes, d=50 mm	m	15		
12.007	The same, d=20 mm	m	35		
12.008	Cost of the ÄÄÄÄ type cable, sec. 3x4+1x2.5 mm2	m	1130		
12.009	The same, sec. 4x2.5 mm2	m	280		
12.010	The same, sec. 3x16+1x10 mm2	m	90		
12.011	The same, sec. 3x35+1x25 mm2	m	380		
12.012	The same, sec. 2x4 mm2	m	100		
	<b>Outside lighting</b>				
12.015	Installation of steel lighting poles, 9 m high, incl. foundations, brackets (ÄÄ-II type)	no	24		
12.016	Installation of fixtures for outside lighting, ÄÄÄÄ-250 with lamps ÄÄÄÄ-250	set	24		
12.017	Installation of the Ö-614 switch box	no	24		
12.018	Installation of the ÄÄÄÄ-35 search light with lamps of 500 W	no	15		
	Subtotal (Carry to next page)				

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**Bill No.: 01, Terminal Area Arrangement**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
12.019	The same, İÇN-45 with lamps of 1000 W	no	4		
12.020	Installation of the İĐ41-4301-43 distribution box	no	1		
12.021	The same, photo switch İĐİ-68-1	no	1		
12.022	Installation of a steel flood lighting mast, 18 m high, including foundation, automata İÂÇ-6 and ÂÂ1031, ßÎÖ-8501	no	2		
12.023	Laying of steel pipes, d=20 mm along the mast	no	80		
12.024	Pull-in of the ÂİĐÖİ type wire, sec. 2.5 mm2 in the pipe	m	48		
12.025	The same, sec. 4 mm2	m	160		
	<b>Telephone communication</b>				
12.030	Installation of asbestos cement pipe, d=100mm, incl. trenching	m	1185		
12.031	Pull-in of the Öİİ-100đ0.4 mm2 phone cable in pipes incl. trenching , covering, etc.	m	1000		
12.032	The same, Öİİ-50đ0.4 mm2	m	40		
12.033	The same, Öİİ-10đ0.4 mm2	m	115		
12.034	The same, ÖİÂ-50đ0.4 mm2	m	10		
12.035	The same, ÖİÂ-10đ0.4 mm2	m	20		
12.036	Small type pre-cast RC wells with manhole, incl. excavation, etc.	no	9		
	<b>Site radio</b>				
12.041	Installation of a 1.6 m long radio post from a pipe d=48 mm with traverses and a hook, 5 nos	no	4		
12.042	Laying of the İĐİİİ-2đ0.6 mm type wire along the supports	m	685		
12.051	Other items (to be specified)				
	Total (carry to Bill No.01- item No.12)				
<b>13</b>	<b>Water supply/sewerage/heating</b>				
	<b>Site water pipeline</b>				
13.001	Water pipeline wells of pre-cast RC units, d=1000 mm, İ=1.5 with "Ö"-type manhole, incl. trenching works, etc.	no	7		
13.002	Laying of steel pipes, d=89x3 mm, incl. trenching works, etc.	m	771		
13.003	The same, d=108x3.5 mm	m	305		
13.004	Installation of collars, d=80 mm	no	10		
13.005	The same, d=100 mm	no	4		
13.006	Installation of valves, d=80 mm	no	6		
	Subtotal (Carry to next page)				

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## Bill No.: 01, Terminal Area Arrangement

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
13.007	The same, d=100 mm	no	2		
13.008	The same, watering globe valve 150+802, d=20 mm	no	5		
13.009	Fire fighting hydrant	set	8		
13.010	Laying of galvanised pipes, d=25 mm, incl. trenching works, etc.	m	5		
13.011	Washing of pipeline with disinfection	LS	-	-	
13.012	Connecting to existing net	LS	-	-	
	<b>Sewerage on the site</b>				
13.021	Wells of pre-cast RC units, d=1000 mm, H=1.5 with "T"-type manhole incl. trenching works, etc.	no	15		
13.022	Laying of asbestos-cement pipes AO-6, d=150 mm, incl. trenching works, etc.	m	126		
13.023	The same, d=200 mm	m	347		
13.024	Laying of steel pipes, d=150 mm, pressure sewerage, incl. trenching works, etc.	m	286		
13.025	Joining to the existing net in wet soils	no	2		
	<b>Drainage</b>				
13.031	Installation of oil separator, galvanised steel, capacity 250 l.	no	3		
13.032	Wells of pre-cast RC units, d=1000 mm, H=1.5 m with "OAI"-type manhole, heavy duty type	no	111		
13.033	Laying of asbestos-cement pipes AO-6, d=200 mm, incl. trenching works, etc.	m	1760		
13.034	The same, d=300 mm	m	330		
13.035	The same, d=400 mm	m	53		
	<b>Heating net on the site</b>				
13.041	Installation of engineering canals of pre-cast RC units 60-45=330 m, water insulated, incl. trenching	m3	70.29		
13.042	Heating valves chamber with dimensions of 2.25x1.8x2.1 (H)	no	1		
13.043	The same, dimensions 1.80x1.50x2.1 (I)	no	6		
13.044	The same, dimensions 1.80x1.50x3.0 (I)	no	2		
13.045	Corner of turning 60x45	no	7		
13.046	Expansion recess 90x45	no	4		
13.047	Drainage well with d=1000 mm	m3	1,6		
13.048	Cement blinding on pre-cast RC slabs	m2	390		
13.049	Installation of concrete pads II-1	no	221		
13.050	The same, II-2	no	54		
13.051	Cement blinding about a floor slab of the duct	m2	297		
	Subtotal (Carry to next page)				

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**Bill No.: 01, Terminal Area Arrangement**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
13.052	Laying of steel pipes with d=108x3.5 mm in engineering canals	m	178		
13.053	The same, d=45x2.5	m	214		
13.054	The same, d=38x2	m	48		
13.055	The same, d=32x2	m	220		
13.056	Installation of steel valves with d=80 mm	no	2		
13.057	Installation of globe valve 15" d=40 mm	no	4		
13.058	The same, d=25 mm	no	8		
13.059	The same, d=32 mm	no	2		
13.060	Expansion loops with d=100 mm	no	4		
13.061	The same, d=32 mm	no	2		
13.062	The same, d=25 mm	no	2		
13.063	Gasproof stuffing box, d=80 mm	no	2		
13.064	The same, d=32 mm	no	2		
13.065	The same, d=25 mm	no	4		
13.066	Steel collars, d=80 mm, for the valves	no	4		
	<b>Retaining Walls</b>				
13.071	Installation of asbestos cement pipes, d=100 mm	m	19.6		
	Total (Carry to bill No.01- item No.13)				
<b>14</b>	<b>Paving and Road Works</b>				
	<b>Internal roads, new</b>				
14.001	Preparation and compaction of road bed	m <sup>2</sup>	27070		
14.002	Subbase-sand, 10 cm thick	m <sup>2</sup>	27070		
14.003	Subbase gravel, 22 cm thick	m <sup>2</sup>	27070		
14.004	Top aggregate base, thickness 12 cm	m <sup>2</sup>	27070		
14.005	Concrete curb stones on concrete base, type AD-30	m	1286		
14.006	Base coarse of asphalt concrete pavement, 50 mm thick	m <sup>2</sup>	26570		
14.007	Carriage way surfacing of the asphalt concrete pavement, 70 mm thick	m <sup>2</sup>	26570		
14.008	Concrete block stone pavement, in inspection pit area, thickness 120 mm on 40 mm sand bed, on top of ordinary base build up	m <sup>2</sup>	500		
14.009	Preparation and compaction of bed for footpath	m <sup>2</sup>	1160		
14.010	10 cm thick sub-base gravel for footpaths	m <sup>2</sup>	1160		
14.011	Asphalt pavement (carriage way type) of the footpaths, 30 mm thick	m <sup>2</sup>	1160		
14.012	10 cm thick sand base for pavement from slabs	m <sup>2</sup>	1450		
	Subtotal (Carry to next page)				

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## Bill No.: 01, Terminal Area Arrangement

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
14.013	Pavement from mosaic tiles measured 50x50x5 around building works	m2	1450		
	<b>Internal roads (light traffic), repaired and widened</b>				
14.021	Cleaning of existing pavement for any loose material	m2	5400		
14.023*	Levelling and repair of holes with asphalt concrete	m3	85		
14.024	Dispensing of bitumen over existing pavement	t	13		
14.025	Repair of the existing asphalt concrete pavement with application of asphalt concrete, 50 mm thick	m2	5400		
14.026	The same, for footpaths, 30 mm thick	m2	1400		
14.027	Replacement of the curb stones	m	920		
14.028*	Preparation and compaction of road bed	m2	1800		
14.029*	10 cm thick subbase-sand	m2	1800		
14.030*	Subbase gravel, 12 cm thick	m2	1800		
14.031*	Top aggregate base with thickness of 10 cm	m2	1800		
14.032*	Asphalt pavement (base coarse type), 70 mm thick	m2	1800		
	<b>Access roads / Perimeter road</b>				
14.041	Preparation and compaction of road bed	m2	3750		
14.042	Subbase-sand , 10 cm thick	m2	3750		
14.043	Subbase gravel, 22 cm thick	m2	3750		
14.044	Top aggregate base, thickness 12 cm	m2	3750		
14.045	Concrete curb stones on concrete base, type AD-30615	m	1260		
14.046	Base coarse of asphalt concrete pavement, 50 mm thick	m2	3750		
14.047	Carriage way surfacing of the asphalt concrete pavement, 70 mm thick	m2	3750		
14.048	Preparation and compaction of bed for footpath	m2	1120		
14.049	10 cm thick sub-base gravel for footpaths	m2	1120		
14.050	Asphalt pavement (carriage way type) of the footpaths, 30 mm thick	m2	1120		
	<b>Fencing</b>				
14.061	Installation of wire fence h=2.8 m	m	970		
14.062	Installation of gates (double leaf) in fence, w=5 m	no	1		
14.063	The same, w=6 m	no	8		
14.064	The same, w=10 m	no	5		
14.065	Installation of black painted galvanised steel chain on movable steel posts, H=1.0 m	m	60		
	Subtotal (Carry to next page)				



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**Bill No.: 01, Terminal Area Arrangement**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried Over				
	<b>Traffic sign and Markings</b>				
14.071	Sign, high gallow type (RHS-profile support)	no	9		
14.072	Sign, low gallow type-short (tube profile)	no	7		
14.073	Sign, low gallow type-long (tube profile)	no	2		
14.074	Sign, ordinary tube post type	no	19		
14.075*	Painting of lines, 0.1 m wide	m	3100		
14.076	Painting of lines, 0.3 m wide	m	250		
14.077	Painting of Figures (letters)	no	65		
Total (Carry to bill No. 01-item No. 14)					

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## Bill No.: 02, Marine Works

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>02</b>	<b>Demolition</b>				
	<b>Access bridge</b>	-	-	-	-
02.10.1	Railing	m	167		
02.10.2	Electrical installation and cables	LS	-		
02.10.3	Reinforced concrete slab	m3	125		
02.10.4	Reinforced concrete piles 0.35 x 0.35 m	Nos.	44		
	<b>Central pier</b>	-	-	-	-
02.11.1	Pavement	m2	1530		
02.11.2	Fill in superstructure	m3	3010		
02.11.3	Old fender system	LS	-		
02.11.4	Quay walls	m3	710		
02.11.5	Concrete in superstructure of pier head	m3	80		
02.11.6	Fill in substructure of pier head	m3	850		
02.11.7	Steel sheet piles in pier head	ton	180		
02.11.8	Lamppost	Nos.	1		
02.11.9	Bollards	Nos.	12		
	<b>Finger piers (2)</b>	-	-	-	-
02.12.1	Lamppost	Nos.	2		
02.12.2	Old fender system	LS	-		
02.12.3	Concrete in superstructure	m3	320		
02.12.4	Fill in superstructure	m3	520		
02.12.5	Reinforced concrete piles 0.40 x 0.40 m	Nos.	112		
02.12.6	Bollards	Nos.	2		
	<b>Sea bottom</b>	-	-	-	-
02.13.1	Cleaning of bottom in the berths for waste and debris and pile ends rising over bottom level	LS	-		
	<b>Lifting towers</b>	-	-	-	-
02.14.1	Existing railing	m	280		
02.150	Other items (to be specified)				
02.	Total (Carry to summary Bill 02 - item 02)				

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**Bill No.: 02, Marine Works**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>03</b>	<b>Earthworks, Dredging</b>				
	<b>Earthworks</b>	-	-	-	-
03.110	Bathymetric survey in reclamation area	LS	-		
03.120*	Filling up sand in reclamation area incl. levelling and compaction	m3	72,000		
03.130	Sand filling in central pier	m3	15,000		
03.140	Sand filling in pier head	m3	875		
03.150	Sand filling in superstructures	m3	3300		
	<b>Dredging</b>	-	-	-	-
03.210	Bathymetric survey in berth areas	LS	-		
03.220*	Dredging around the ferry berths if actual	m3	1500		
03.230*	Disposal of dredged materials if actual	m3	1500		
03.240*	Dredging in area for land reclamation if soft soils are found by geotechnical surveys	m3	20,000		
03.250*	Disposal of dredged materials from area of land reclamation if actual	m3	20,000		
03.260	Depth soundings of dredged areas	LS	-		
03.270	Final bathymetric survey	LS	-		
03.300	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 03)				

\*) Estimated quantities are not fixed but shall be calculated after surveys.

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>04</b>	<b>Stone and Rubble Works</b>				
	<b>Stone revetment for land reclamation</b>	-	-	-	-
04.110*	300 kg stones in cover layers	m3	3700		
04.120*	Secondary stones 100 < D < 500 mm	m3	2300		
04.130*	Gravel: 8 < D < 120 mm	m3	7100		
04.140	Geotextile class 3	m2	2900		
04.150	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 04)				

\*) Estimated quantities are not fixed but shall be calculated after surveys.

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**Bill No.: 02, Marine Works**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>05</b>	<b>Pile Works</b>				
	<b>Central pier</b>	-	-	-	-
05.110	Steel sheet piles delivery	Ton	780		
05.120	Steel sheet piles installation	Ton	780		
05.130	Fender pipe piles delivery (24 piles)	Ton	36.5		
05.140	Fender pipe piles installation (24 piles)	Ton	36.5		
	<b>Pier head</b>	-	-	-	-
05.210	Steel sheet piles delivery (Straight - Web)	Ton	82		
05.220	Steel sheet piles installation (Straight - Web)	Ton	82		
05.230	Fender pipe piles delivery (5 piles)	Ton	7.6		
05.240	Fender pipe piles installation (5 piles)	Ton	7.6		
	<b>Finger piers (2)</b>	-	-	-	-
05.310	Steel pipe piles delivery (20 piles)	Ton	63.2		
05.320	Steel pipe piles installation (20 piles)	Ton	63.2		
05.330	Fender pipe piles delivery (10 piles)	Ton	15.2		
05.340	Fender pipe piles installation (10 piles)	Ton	15.2		
	<b>Land base for access bridge</b>	-	-	-	-
05.410	300x300 concrete piles delivery	m	126		
05.420	300x300 concrete piles installation	m	126		
05.500	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 05)				

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**Bill No.: 02, Marine Works**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>06</b>	<b>Concrete Works</b>				
	<b>Pier head</b>	-	-	-	-
06.110	Reinforced concrete in superstructure	m3	250		
06.120	Prestressed concrete access bridge to pierhead	m3	8		
	<b>Central pier</b>	-	-	-	-
06.210	Reinforced concrete in fender sections	m3	350		
06.220	Reinforced concrete in bollard sections	m3	40		
06.230	Reinforced concrete in normal sections	m3	252		
	<b>Finger piers (2)</b>	-	-	-	-
06.310	Reinforced concrete in superstructure	m3	485		
	<b>Lifting tower base</b>	-	-	-	-
06.410	Concrete in existing counterweight pits	m3	650		
06.420	Reinforced concrete in lifted superstructure	m3	1120		
	<b>Access bridge</b>	-	-	-	-
06.510	Reinforced concrete in land base	m3	16.2		
06.520	Reinforced concrete in support beams	m3	30		
06.530	Concrete in pier base	m3	53		
06.600	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 06)				

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## Bill No.: 02, Marine Works

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>08</b>	<b>Steel Works</b>				
	<b>Access bridge</b>	-	-	-	-
08.110	Structural steel in bridge	ton	160		
08.120	Steel in railing	ton	12.1		
08.130	Bearings	Nos.	12		
08.140	Paving	m2	335		
	<b>Fender structures</b>	-	-	-	-
08.210	Structural steel in fender units (39 units)	ton	682.5		
08.220	Anchor bolts in steel panel	Nos.	936		
08.230	Anchor bolts in concrete	Nos.	936		
	<b>Anchoring of sheet piles</b>	-	-	-	-
08.310	Anchor bars and nuts	ton	33.7		
08.320	Plates and washers	ton	7		
	<b>Lining of counterweight pits</b>	-	-	-	-
08.410	Structural steel in counterweight pits	ton	128		
08.500	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 08)				

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>12</b>	<b>Electrical Installations</b>				
	<b>Central pier</b>				
12.110	Installation of floodlight steel mast, height 25 m, complete incl. foundation, lightening installation, etc.	No.	1		
	<b>Finger pier</b>				
12.120	Installation of floodlight steel mast, height 25 m, complete incl. foundation, lightening installation, etc.	No.	2		
12.200	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 12)				

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**Bill No.: 02, Marine Works**

<b>13</b>	<b>Water Supply / Sewerage</b>				
	<b>Water Supply</b>				
13.001	Installation of steel pipeline, d = 100 mm, for water supply to central pier, complete incl. valves, collars etc.	m	260		
13.002	Outlet connection for branching of vessel flexible for water supply	No.	2		
13.003	Fire hydrant on central pier	No.	2		
	<b>Sewerage</b>				
13.010	Installation of asbestos cement pipeline d = 150 mm on central pier / access bridge for sewerage from vessels	m	140		
13.011	Inlet connection, for branching of vessel flexible for sewerage	No.	2		
	<b>Drainage</b>				
13.015	Outlets including wells and pipes	Nos.	9		
13.020	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 13)				

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>14</b>	<b>Paving and Road Works</b>				
	<b>Paving on cetral pier</b>				
14.001	200 mm base	m2	1300		
14.002	30 mm sand below pavement blocks	m2	1300		
14.003	80 mm Concrete blocks	m2	1300		
14.010	Other items (to be specified)				
	Total (Carry to summary Bill 02 - item 14)				

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**Bill No.: 02, Marine Works**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	<b>Fenders</b>	-	-	-	-
15.110	Rubber fender elements MV 800 x 2000B	Nos.	78		
15.120	60 mm UHMWP facing (39 units)	m2	1026		
	<b>Mooring Equipment</b>	-	-	-	-
15.210	100 ton bollard incl. anchor bolts	Nos.	10		
	<b>Rescue Equipment</b>	-	-	-	-
15.310	Ladders	Nos.	7		
	<b>Corrosion Protection</b>	-	-	-	-
15.410	Central pier delivery (aluminium weight)	kg	14250		
15.420	Central pier installation (numbers of anodes)	Nos.	342		
15.430	Pier head delivery (aluminium weight)	kg.	1350		
15.440	Pier head installation (numbers of anodes)	Nos.	45		
15.450	Finger pier piles delivery (aluminium weight)	kg.	1200		
15.460	Finger pier piles installation (numbers of anodes)	Nos.	120		
15.470	Fender piles delivery (aluminium weight)	kg.	663		
15.480	Fender piles installation (numbers of anodes)	Nos.	78		
15.490	Fender shield delivery (aluminium weight)	kg.	3510		
15.500	Fender shield installation (numbers of anodes)	Nos.	468		
15.510	Sheet piles at third row towers delivery(aluminium weight)	kg.	8160		
15.520	Sheet piles at third row towers installation(numbers of anodes)	Nos.	218		
15.530	Sheet piles at second row towers delivery(aluminium weight)	kg.	3900		
15.540	Sheet piles at second row towers installation(numbers of anodes)	Nos.	104		
15.550	Sheet piles at first row towers delivery(aluminium weight)	kg.	2600		
15.560	Sheet piles at first row towers installation(numbers of anodes)	Nos.	52		
15.570	Ro-Ro-Ramp piles delivery (aluminium weight)	kg.	840		
15.580	Ro-Ro-Ramp piles installation (numbers of anodes)	Nos.	84		
15.600	Other items (to be specified)				
	<b>Total (Carry to summary Bill 02 - item 15)</b>				



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**Bill No.: 03, Ramps and Towers**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>07</b>	<b>Masonry Works, Towers</b>				
07.101	New masonry work on support towers, complete with windows, paint work etc.	no.	12		
07.110	Other (to be inserted by the bidder)				
Total (Carry to summary Bill no. 03 - item 07)					

<b>08</b>	<b>Steel works</b>	-	-	-	-
08.101	Dismantling of wooden deck on 2 ferry ramps	LS	-		
08.102	Dismantling of 2 ferry ramps and 12 support towers incl. of counterweights etc., complete	LS	-		
08.103	Disassembling of ramps and towers, complete	LS	-		
08.104	Cleaning and inspection of ramps and towers	LS	-		
08.105	Application of complete surface-protection system upon all steel structures	LS	-		
08.106	Assembling and erection of ferry ramps and support towers, complete	LS	-		
08.107	Preparation and delivery of complete documentation	LS	-		
08.108	Quality Assurance, complete	LS	-		
08.109	New counterweights, complete incl. concrete but excl. of adjusting plates	no.	12		
08.110	Adjusting plates for counterweights	kg	818720		

08.111	Railing upon ramps	kg	6300		
08.112	Equaliser beam assemblies upon ramp span 1 and span 2	no.	8		
08.113	Equaliser beam assemblies upon ramp span 3	no.	4		
08.114	Support fixtures upon central main girder of ramp span 1 and span 2	kg	1367		
08.115	Brackets for timber fixation, ramp span 1 and span 2	kg	4750		
08.116	Support assemblies for sidewalk, ramp span 1 and span 2	kg	940		
08.117	Lateral guide, ramp span 1 and span 2	kg	381		
08.118	Cross beam type 1, ramp span 3	kg	53000		
08.119	Cross beam type 2, ramp span 3	kg	19485		
08.120	Cross beam type 3, ramp span 3	kg	5248		
08.121	Cross beam type 4, ramp span 3	kg	5091		
08.122	Plating for rail support, floor plates, lateral guides etc., ramp span 3	kg	10742		
08.123	K-lattice under support towers	no.	16		
08.130*	Replaced steel structures due to deterioration, (quantity estimated to 0.1 times total weight)	kg	70000		
08.140	Other (to be inserted by the bidder)				
Total (Carry to summary Bill no. 03 - item 08)					

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## Bill No.: 03, Ramps and Towers

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>09</b>	<b>Timber Works</b>				
	<b>Towers</b>				
09.001	Azobé Timber deck and sidewalks, complete incl. bolts, screws etc., ramp span 1 and span 2	m3	202		
09.002	Azobé Timber deck and sidewalks, complete incl. bolts, screws etc., ramp span 3	m3	160		
09.003	Other (to be inserted by the bidder)				
	Total (Carry to summary Bill no. 03 - item 09)				

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>12</b>	<b>Electrical Installations/Controls</b>				
	The below mentioned prices shall only be included in one item. E.g. Item 12.014 is supply only. Erection shall be included in item 12.017.	-	-	-	-
12.001	Supply of switchboard 1A	No.	1		
12.002	Supply of switchboard 1A01 and 1A11	No.	2		
12.003	Supply of switchboard 1A02 and 1A12	No.	2		
12.004	Supply of switchboard 1A03 and 1A13	No.	2		
12.005	Supply of switchboard 1A04 and 1A14	No.	2		
12.006	Supply of switchboard 1A05 and 1A15	No.	2		
12.007	Supply of switchboard 1A06 and 1A16	No.	2		
12.008	Supply and control panel 1A07 and 1A08	No.	2		
12.009	Supply and erection of capacity bank system	LS	-		
12.01	Supply of lighting fixtures, Type A	No.	38		
12.011	Supply of lighting fixtures, Type B	No.	10		
12.012	Supply of lighting fixtures, Type C incl. mast arm	No.	24		
12.013	Supply of lighting fixtures, Type D incl. mast arm	No.	2		
12.014	Supply of lighting fixtures, Type E excl. mast	No.	6		
12.015	Supply of masts for Type E	No.	3		
12.016	Supply and erection of the total PLC system acc. to dwg. B.03.84, B.03.85, B.03.86, B.03.88, B.03.92, B.03.94 and Technical Specifications	LS	-		
12.017	Supply and erection of lighting installations acc. to dwg. B.03.80, B.03.84 and Technical Specifications	LS	-		
	Subtotal (Carry to next page)				



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**Bill No.: 03, Ramps and Towers**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>16</b>	<b>Railtrack Works</b>				
	<b>Ramps</b>				
16.001	New rails P65 incl. of clips, bolts, rubber pads, fishplates, fittings etc.	m	700		
16.002	Other items (to be inserted by the bidder)				
	Total (Carry to summary Bill no. 03 - item 16)				

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>17</b>	<b>Machinery and Equipment</b>	-	-	-	-
17.001	Dismantling of all machinery in the 12 support towers	LS	-		
17.002	Dismantling of all bearings, shock absorbers, sheaves etc from the 2 ferry ramps	LS	-		
17.003	Disassembling of all machinery and equipment	LS	-		
17.004	Cleaning and inspection of all machinery and equipment	LS	-		
17.005	Application of complete surface-protection system upon all machinery and equipment	LS	-		
17.006	Assembling and mounting of machinery in support towers and upon ferry ramps	LS	-		
17.007	Preparation and delivery of complete documentation, drawings, calculations, manuals etc	LS	-		
17.008	Quality Assurance, complete	LS	-		
17.009	Tests on completion, complete	LS	-		
17.010	Electrical motors for machinery in support towers, row 1 and row 2	no.	8		
17.011	Electrical motors for machinery in support towers, row 3	no	4		
17.012	Hoisting spindles for machinery in row 1, incl. of seal kit and protective bellows etc. for drive	no.	4		
17.013	Hoisting spindles for machinery in row 2, incl. of seal kit and protective bellows etc. for drive	no.	4		
17.014	Gearbox and drive train rehabilitation, incl. of seal kit and elastic inserts for couplings etc.	no.	12		
17.015	Gear reducers, elastic couplings and control transmitter, complete	no.	12		
17.016	Hoisting winches, Brakes and Emergency drive rehabilitation in row 3, incl. of hoisting wires, turning of brake drums, brake shoes etc.	no.	4		
17.017	Counterweight ropes, incl. of fittings and seal kits for rope sheaves etc., row 1	set	8		
	Subtotal (Carry to next page)				



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**BILL No.: 05. - Modification of Passenger Terminal**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
02.	<b><u>Demolition Works</u></b>				
02.001	Manual dismantling of walls	m3	14.2		
02.002	Holing of openings in stone walls	m3	6.8		
02.003	Dismantling of floors from ceramic tiles	m2	620		
02.004	Dismantling of concrete base	m3	62		
02.005	Dismantling of door blocks	m2	22		
02.006	Dismantling of window blocks	m2	65		
02.009	Dismantling of partitions from bricks	m3	3.7		
03	<b><u>Earthworks</u></b>				
03.001	Excavation in pits for foundations of posts	m3	46		
03.002	Back filling of the soil	m3	21		
03.003	Sand filling under floors	m3	25		
03.004	Levelling and compaction of fill area in layers of 20 cm	m2	2.5		
06	<b><u>Concrete Works</u></b>				
06.001	Concrete strip foundations	m3	9		
06.002	Concrete bedding of 10 cm from concrete B7,5	m3	3		
06.003	In-situ RC foundations under posts of foundation reinforcing from concrete B15	m3	19		
06.004	In-situ RC floors from concrete B15	m3	17		
06.005	In-situ RC slab of platform from concrete B15	m3	0.4		
06.006	Installation of concrete steps	m3	30.8		
06.007	Concrete bedding of 10 cm	m3	62		
07	<b><u>Masonry works</u></b>				
07.001	Outdoor walls from kubik type stones, 39 cm thick	m2	96		
07.002	Installation of 12 cm partition from bricks	m2	71.6		
07.003	Wall plastering, type improved	m2	392		
07.004	High quality plastering of facade walls	m2	186		
08	<b><u>Steel works</u></b>				
08.001	Installation of steel columns from pipes with diameter 245x6	kg	710		
08.002	Reinforcing of the existing columns with U-profile No. 16	kg	1534		
08.003	Installation of steel beams from U-profile	kg	6757		
08.004	Installation of steel bridge boards from U-profile No. 24	kg	341		
08.005	Reinforcing of in-situ structures	kg	3150		
08.006	Steel railing of stairways with pine hand rails	m	16		
08.007	Installation of grids for steel enclosure of the balcony	m	36		
08.008	Installation of steel lintels	kg	300		
	Subtotal (Carry to next page)				

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**BILL No.: 05. - Modification of Passenger Terminal**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
10	<b><u>Joinery works</u></b>				
10.001	Installation of burnished door blocks in partitions ДГ21-9	No.	5		
10.002	ДГ21-9	No.	3		
10.003	Installation of stained glass windows of PIMAPEN with 6 mm thick glass glazing 5,4x3,0	No.	2		
	5,05x3,0	No.	2		
10.005	Installation of stained glass windows of PIMAPEN with 6 mm glass glazing and of door block from tempered glass 5,35x3,0	No.	5		
10.006	Installation of partitions from PIMAPEN with glazing of 6 mm thick glass 3,0x2,5	No.	6		
10.007	6,0x3,0	No.	2		
11	<b><u>Finishing Works</u></b>				
11.001	Floor covering with ceramic tiles	m2	890		
11.002	Improved oil painting of the walls	m2	392		
11.003	Facing of ceramic tiles on walls	m2	137		
11.004	Oil painting of steel railings	m2	54		
11.005	The same, steel structures	m2	320		
11.006	Perchlorumvinil painting of facade walls	m2	186		
11.007	Installation of the suspended ceiling PRONTO type or similar	m2	175		
12	<b><u>Electric installations/controls</u></b>				
12.001	Installation of lighting fixtures "ЦПОИ" in suspended ceiling	No.	36		
12.002	Laying of wire УПВ sec. 2.5 mm2	m	350		
12.003	Installation of switches	No.	5		
12.004	Plastic boxes УПК-4	No.	8		
13	<b><u>Water supply/sewerage/heating</u></b>				
	<b><u>Water pipelines</u></b>				
13.001	Laying of galvanised pipes of 20 mm	m	30		
13.002	The same, diameter 25 mm	m	10		
13.003	The same, diameter 40 mm	m	52		
13.004	The same, diameter 50 mm	m	12		
13.005	Test of the system	LS	-	-	
13.006	Installation of cut-off valve 30ч6P6 diamet. 50 mm	No.	5		
13.007	Fire hydrant	No.	2		
13.008	Valve 15ч862 diameter 15 mm	No.	9		
13.009	The same, diameter 20 mm	No.	2		
	Subtotal (Carry to next page)				

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**BILL No.: 05. - Modification of Passenger Terminal**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
	<b>Sewerage</b>				
13.010	Installation of wash basin "УТРО" with a tap	No.	4		
13.011	The same, WC pan (Asian type)	No.	6		
13.012	Faence urinal	No.	4		
13.013	Laying of cast iron pipes of 50 mm	m	10		
13.014	The same, diameter 100 mm	m	15		
13.015	The same, diameter 150 mm	m	20		
13.016	Installation of floor gully diameter 100 mm	No.	2		
	<b>Ventilation</b>				
13.001	Autonomous air conditioner ROOFTOP BIH-240, weighing 1043 kg	No.	1		
13.002	Air pipelines of galvanised roofing steel, 0.9 mm thick, sec. 1200x400 mm	m2	13		
13.003	The same, sec. 1000x400 mm	m2	39		
13.004	The same, sec. 900x400 mm	m2	8		
13.005	The same, sec. 800x400 mm	m2	79		
13.006	The same, sec. 800x200 mm	m2	10		
13.007	The same, sec. 500x400 mm	m2	121		
13.008	The same, sec. 400x200 mm	m2	42		
13.009	Round air pipeline of galvanised steel, 0.5 mm thick d=200 mm	m2	1		
13.010	Ceiling grilles 450x450 (Turkey)	No.	15		
13.011	Linear air terminal device 150 sec. 150x150	No.	2		
13.012	Silencers ØOI-12	No.	12		
13.013	Flexible connectors ААI sec. 500x500, F=1m2	No.	3		
13.014	The same, 410x410 mm F=0.8 mm2	No.	5		
13.015	Air baffles, sec. 400x200	No.	1		
13.016	The same, 400x800	No.	3		
13.017	The same, 400x600	No.	2		
13.018	Installation of abat-vent ААЕ-5 d. 500 mm	No.	1		
13.019	Air pipeline insulation of fiber glass flexible insulation (on the roof)	m3	7.5		
13.020	Covering of the air pipelines with bitumenous foil	m2	120		
13.030	Other(to be inserted by the bidder)				
	Total (Carry to summary Bill no. 05)				

\* Equivalent square meter



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**BILL No.: 06, Border Control Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
03	<b>Earth works</b>				
03.001	Excavation of soil for foundations to depot on site	m3	594		
03.002	Back filling of sand from depot	m3	560		
03.003	Levelling and compaction of sand in layers of 20 cm	m3	560		
03.004	10 cm thick gravel bedding under strip foundation	m3	39.5		
03.005	Compaction of the soil by gravel under floors	m2	285		
03.006	Sand bedding under porch floors	m3	0.2		
06	<b>Concrete works</b>				
06.001	Reinforcement of monolithic RC structures	kg	9292		
06.002	Concrete blinding with thickness of 10 cm under foundations of concrete B-7.5	m3	31.4		
06.003	RC strip foundations of concrete B-15	m3	105.5		
06.004	Concrete porch foundation of concrete B-15	m3	0.3		
06.005	Monolithic RC posts CKM-1 of concrete B-20	m3	1.4		
06.006	Monolithic RC lintel of concrete B-15	m3	5.27		
06.007	Monolithic RC belt of concrete B-15	m3	9.32		
06.008	Monolithic RC parts of floors from concrete B-15	m3	1.8		
06.009	Installation of pre-fabricated RC hollow slabs of floors 1ПК59.10АТ.С9	No.	30		
06.010	1ПК59.12АТ.С9	No.	17		
06.011	8 cm thick concrete blinding of concrete B7.5 under floors	m3	22.8		
06.012	Concrete blinding under floors of the porch and steps of concrete B7.5	m3	0.1		
06.013	The same, under ducts of concrete B-15	No.	6.6		
06.014	Installation of pre-fabricated RC slabs PT12.5-8.6 of ducts	No.	102		
	Subtotal (Carry to next page)				

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**BILL No.: 06, Border Control Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
07	<b>Masonry works</b>				
07.001	Walls of foundation, basement entrance and porch of "cubic" stones, 39 cm thick, on mortar M-50	m2	63.1		
07.002	Horizontal wall insulation with cement mortar with the thickness of 20 mm	m2	51		
07.003	Side insulation of foundation walls and ducts with cement mortar	m2	156		
07.004	Outside walls of "cubic" stones, 39 cm thick on mortar M-50	m2	242.1		
07.005	The same, inside walls	m2	91.1		
07.006	Partitions of bricks, 12 cm thick	m2	219.3		
07.007	Duct walls of "cubic" stones, t. 39 cm	m2	3.4		
07.008	The same, t. 19 cm	m2	35.1		
07.009	Finishing of ceilings for painting	m2	285		
07.010	Plastering type improved of inside walls	m2	685		
07.011	Plastering type improved of inside window and door reveals	m2	32		
07.012	Plastering of walls and bottoms of ducts with dry cementation	m2	104		
07.013	High quality plastering of facade walls and entrance to the basement	m2	248		
07.014	High quality plastering of facade slopes	m	112		
08	<b>Steel works</b>				
08.001	Installation of steel shed posts of pipes with d=245x6 mm	kg	5841		
08.002	Installation of steel shed beams from U-profile No. 20	kg	5226		
08.003	Installation of shed purlins of U-profile No. 10	kg	3666		
08.004	Installation of steel frames from angle No. 50x50	kg	6428		
08.005	Shed roofing of galvanised steel floor decking	m2	810		
08.006	Lining of shed parapet with metal floor decking	m2	162.1		
08.007	Anchor bolts for posts installation	kg	480		
08.008	Ticketing kiosks 2.5x1.6x2.2 (H) from PIMAPEN with 6 mm glass glazing	No.	6		
08.009	Steel framework for air-conditioner on roof and in ducts	kg	111		
	Subtotal (Carry to next page)				

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**BILL No.: 06, Border Control Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
09	<b>Roofing works</b>				
09.001	Water insulation in a layer of bitumenous felt	m2	324		
09.002	Cement blinding, thick. 30 mm, on roof	m2	324		
09.003	Roof of 3 layers of fibre glass felt	m2	324		
09.004	Heater of expanded clay with thickn. of 8-14 cm	m3	35.6		
09.005	Cement blinding with t. of 20 mm under floors (2 layers)	m2	570		
09.006	Water insulation of 2 mastic compound layers under floors	m2	285		
09.007	Insulation of foundation walls and ducts with bitumen in 2 times	m2	156		
10	<b>Joinery works</b>				
10.001	Installation of burnished door blocks ДГ 21-9 with a lock in inside walls	No.	8		
10.002	The same, in partitions ДГ 21-9	No.	9		
10.003	Installation of a barrier from burnished shields in the lobby	m	10		
10.004	Installation of door blocks of PIMAPEN with dim. 2.1x1.0 with glazing by 6 mm glass	No.	2		
10.005	The same, of window blocks with glazing by insulating glass unit 4x4, dim.	No.	20		
10.006	1.2-0.6	No.	1		
10.007	Installation of window boards from marble tiles	m2	9.5		
11	<b>Finishing works</b>				
11.001	Facing of walls with ceramic tiles	m2	79.2		
11.002	Installation of suspended ceiling PRONTO type	m2	100.4		
11.003	Improved water-emulsion painting of ceilings	m2	285		
11.004	Improved oil painting of the walls	m2	605		
11.005	Oil painting of metallic structures	m2	715		
11.006	Facing of outside socle with lime-stone tiles	m2	31.9		
11.007	Perchlorumvnyl painting of facade walls	m2	303		
11.008	Covering of the floors with ceramic tiles	m2	11.8		
11.009	Covering of the floors from marble tiles	m2	100.4		
11.010	The same, from parquet on a deck from planks	m2	172.5		
11.011	Covering of squares from ceramic tiles	m2	2		
	Subtotal (Carry to next page)				

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Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
12	<b>Electrical installations/controls</b>				
	<b>Electrical supply</b>				
12.001	Distribution box ППИ-1048-2AY3	No.	1		
12.002	Group lighting meter-board YOЩБ-12УХЛ4	No.	4		
12.003	Photo-relay with transmitter ФР-2	No.	2		
12.004	Installation of lighting fittings with luminescent lamps, up to 2 pieces	No.	30		
12.005	The same, up to 6 pieces	No.	30		
12.006	The same, up to 2 pieces in suspended ceilings	No.	18		
12.007	Installation of lighting fittings with glow lamps, for ceilings	No.	6		
12.008	Lighting plastic boxes УПК-4	No.	68		
12.009	Outlets for hidden wiring	No.	32		
12.010	The same, for open wiring	No.	6		
12.011	Switches of hidden wiring	No.	16		
12.012	The same, for open wiring	No.	6		
12.013	Laying of viniplastic pipes with d=20 mm	No.	158		
12.014	Laying of wires for ABПГ-type hidden wiring section 2x2.5 mm <sup>2</sup>	m	540		
12.015	Laying of ABПГ-type cable with sec. 262.5 mm <sup>2</sup> along walls on buckles	m	428		
12.016	The same, in viniplastic pipe	m	158		
12.017	Laying of ABПГ-type with sec. of 2x4 mm <sup>2</sup> along walls on buckles	m	25		
12.018	The same, sec. of 4x2.5 mm <sup>2</sup>	m	10		
12.019	The same, sec. of 3x10+1x16 mm <sup>2</sup>	m	5		
12.020	Laying of АППВС-type wire, sec. 2x2.5 mm <sup>2</sup> in slab hollows	m	80		
12.021	Cost for lighting fittings with luminiscent lamps				
	УСП5-6x20	No.	14		
	УСП5-4x40	No.	16		
	УСП5-2x40	No.	30		
	УСП5-40	No.	6		
	Л104Б-40	No.	12		
12.022	The same, for luminiscent lamps				
	ЛБ-20	No.	84		
	ЛБ-40	No.	142		
12.023	The same, for starters	No.	142		
12.024	The same, for lighting fittings for ceilings ХП-001	No.	2		
12.025	The same, ПП-100	No.	4		
12.026	The same, for glow lamps	No.	6		
	Subtotal (Carry to next page)				

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**BILL No.: 06, Border Control Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
	<b>Fire Alarm System</b>				
12.027	Installation of fire alarm station ТОЛ-10-С	No.	1		
12.028	The same, for battery 10ЖХ-60М	No.	1		
12.029	The same, for loud ringing bell М3-1	No.	1		
12.030	The same, for push-button informant ПКИЛ-9М	No.	2		
12.031	The same, for heat transmitter of the informant ИП105-2/1	No.	38		
12.032	Laying of ТРП type wire with sec. 1x2x0.5 mm2	m	250		
12.033	Plastic branch box	No.	19		
12.034	Installation of wall lamp socket with lamp	No.	1		
12.035	Installation of power supply block БП-24/4 of the station	No.	1		
	<b>Phone Communication</b>				
12.036	Installation of distributor box КРТП-10	No.	1		
12.037	The same, РТШ	No.	20		
12.038	Laying of wire ТРП-2x0.4 mm2 along walls	m	490		
	<b>Radio</b>				
12.039	Subscriber's transformer ТАМУ-10	No.	1		
12.040	Installation of branch boxes УК-2П	No.	1		
12.041	The same, УК-2Р	No.	21		
12.042	Installation of radio outlets РПВ-2 for hidden wiring	No.	15		
12.043	The same, for open wiring	No.	6		
12.044	Laying of the ППВ-2x1.2 type wire along walls	m	50		
12.045	The same, ППВ-2x0.6	m	225		
13	<b>Water supply/sewerage/heating</b>				
	<b>Water Supply</b>				
13.001	Installation of galvanised pipes with d=15 mm	m	5,0		
13.002	Installation of galvanised pipes with d=20 mm	m	10		
13.003	Test of the system	LS	-	-	
13.004	Cost for globe valve 15кч8р2, d=15 mm	No.	2		
13.005	Cost for globe valve 15кч8р2, d=20 mm	No.	1		
13.006	Oil painting of pipes in 2 times	m2	3		
	<b>Sewerage</b>				
13.007	Laying of cast-iron pipes, d=50 mm	m	6		
13.008	Laying of cast-iron pipes, d=100 mm	m	16		
13.009	Installation of faience wash basin "УТРО" type with a tap	No.	2		
13.010	Installation of WC cast-iron pan with a cistern	No.	2		
	Subtotal (Carry to next page)				

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**BILL No.: 06, Border Control Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
	<b>Heating</b>				
13.011	Installation of cast-iron radiant heaters M-140AO	esm*	42		
13.012	Laying of steel pipes with d=15 mm	m	140		
13.013	The same, d=20 mm	m	70		
13.014	Test of the system	LS	-	-	
13.015	Air valve of engineer Maevsky with d=15 mm	No.	2		
13.016	Cost of a double control valve with d=15 mm for radiant heaters	No.	18		
13.017	Cost of valve 15к418п2 with d=15 mm	No.	4		
13.018	Oil painting of pipes and radiant heaters in 2 times	m2	45		
13.019	Lubrication of steel pipes with mastic compound	m2	13		
13.020	Pipe insulation with board type wool insulants	m3	1.6		
13.021	Covering layer of glass fiber reinforced plastics	m2	68		
	<b>Ventilation</b>				
13.022	Autonomous roof conditioner ROOFTOP weighing 477 kg of BCH-90-type	No.	1		
13.023	Axial flow fan AXC-160	No.	1		
13.024	Linear air terminal device with sec. 600x200, of P200-type	No.	5		
13.025	Air pipelines of galvanised steel 0.7 mm thick with sec. 600x300 mm	m2	18		
13.026	The same, sec. 500x300 mm	m2	13		
13.027	The same, sec. 500x200 mm	m2	18		
13.028	The same, 0.6 mm thick, sec. 400x200 mm	m2	12		
13.029	The same, sec. 250x200 mm	m2	4.5		
13.030	The same, 0.5 mm thick, sec. 200x200 mm	m2	4		
13.031	The same, sec. 150x150 mm	m2	12		
13.032	The same, d=150 mm	m2	3.5		
13.033	Air discharge grille PP-1 type, sec. 200x100 mm	No.	15		
13.034	Linear air terminal device 150 sec. 150x150	No.	2		
13.035	A cowl for air pipelines, d=150 mm	No.	1		
13.036	Air pipeline insulation of fiber glass flexible insulation (on the roof)	m3	2.5		
13.037	Covering layer of air pipelines from bitumenous felt	m2	40		
13.038	Flexible connector 500x500 BTH	No.	2		
13.039	Silencers ШТП-12	No.	2		
13.040	The same, ШТП-10	No.	2		
<b>14</b>	<b>Pavement and Road Works</b>				
14.001	Traffic barrier (booms)	No.	6		
14.002	Other(to be inserted by the bidder)				
	Total (Carry to summary Bill no. 06)				

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**BILL No.: 07 - Ticketing Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
03	<b>Earthworks</b>				
03.001	Excavation of soil for foundations to depot on site	m3	159		
03.002*	Transportation of the soil to approved dump	m3	159		
03.003	Back filling of sand from depot	m3	131		
03.004	Levelling and compaction of sand in layers of 20 cm	m3	131		
03.005	Gravel bedding under foundations	m3	13.25		
03.006	Compaction of the soil under floors (by gravel)	m2	45		
06	<b>Concrete works</b>				
06.001	Armouring of monolithic RC structures	kg	3634		
06.002	Concrete blinding of B-7.5 type concrete, 10 cm thick, under foundations	m3	10.6		
06.003	Monolithic RC strip foundations of concrete B-15	m3	32.8		
06.004	Monolithic RC lintels of concrete B-15	m3	0.92		
06.005	Monolithic RC belt of concrete B-15	m3	3.5		
06.006	Monolithic RC floor parts of concrete B-15	m3	1.7		
06.007	Installation of pre-fabricated RC hollow slabs for floors, 1ПК.59.12-8Ar.C9	No.	7		
06.008	The same, duct slabs ТП12.5-8.6	No.	12		
06.009	Concrete blinding, 8 cm thick, from concrete V-7.5 under floors	m3	3.95		
06.010	Concrete blinding under floors of platforms and steps from concrete B-7.5	m3	1		
06.011	Concrete blinding of 10 from concrete B15 under ducts	m3	1		
	Subtotal (Carry to next page)				

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**BILL No.: 07 - Ticketing Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
07	<b>Masonry work</b>				
07.001	Walls for foundations of cubic stones, 39 cm thick	m2	29.8		
07.002	Side insulation of foundation and duct walls with cement mortar	m2	62		
07.003	Horizontal insulation of walls with cement mortar	m2	12		
07.004	Outside walls of "cubic" stones with the thickness of 39 cm on mortar M-50	m2	95.6		
07.005	The same, for internal walls	m2	11.4		
07.006	Duct walls from kubik stones, 19 cm thick	m2	17		
07.007	Porch walls from kubik stones, 19 cm thick	m2	3.2		
07.008	Partitions of bricks, 12 cm thick	m2	33		
07.009	Finishing of ceilings for painting	m2	45		
07.010	Plastering type improved of internal walls	m2	152		
07.011	Plastering type improved of internal window and door reveals	m2	10		
07.012	Plastering of internal duct walls with dry cementation	m2	17		
07.013	High quality plastering of facade walls	m2	93		
07.014	High quality plastering of slopes on the facade	m	23		
08	<b>Steel works</b>				
08.001	Reinforcing of the wall masonry	kg	107		
08.002	Installation of steel shed posts of pipes with diameter 245x6 mm	kg	1635		
08.003	Anchors for installation of the posts	kg	160		
08.004	Installation of steel shed beams of U-profile No 20	kg	1711		
08.005	Installation of steel shed purlins of U-beams No 8	kg	1142		
08.006	Installation of steel frames of angle No 50x50	kg	2537		
08.007	Roofing of the shed from galvanised metal decking	m2	280		
08.008	Lining of the shed parapetum with galvanised metal decking	m2	78		
08.009	Ticketing kiosks of PIPAMEN with glazing 6 mm glass, dim. 2.5x1.6x2.2 m	No.	3		
08.010	Lining on fronts incl. gutters	m2	93		
09	<b>Roofing works</b>				
09.001	Water insulation in one layer of bituminous felt	m2	58		
09.002	Cement blinding, thickness 30 mm on roof	m2	58		
09.003	Roof of three layers of fibre glass felt	m2	58		
09.004	Heater of expanded clay, thickness of 8-14 cm	m3	6.4		
09.005	Cement blinding, 20 mm thick under floors	m2	50		
09.006	Water insulation in two layers of mastic compound under floors	m2	48		
09.007	Side insulation with bitumen for 2 times	m2	62		
	Subtotal (Carry to next page)				



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**BILL No.: 07 - Ticketing Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
10	<b>Joinery works</b>				
10.001	Installation of polished doors ДН21х9 with a lock in outside walls	No.	2		
10.002	The same, in partitions				
	ДГ21-9	No.	8		
10.003	ДГ21-7	No.	1		
10.004	Installation of doors from PEMOPEN with dim. 2.1x1.0 with glazed with 6 mm glass	No.	1		
10.005	The same, glazed with glass insulating units				
	1.2-1.5	No.	4		
10.006	0.4-0.6	No.	1		
11	<b>Finishing works</b>				
11.001	Facing of walls with glazed encaustic tiles	m2	18.2		
11.002	Whitewash painting of ceilings and walls	m2	8		
11.003	Water emulsion painting type improved of ceilings	m2	43		
11.004	Oil painting type improved of walls	m2	137		
11.005	Facing of outside walls with limestone tiles, plinth	m2	13.2		
11.006	Perchlorvinil painting of facade walls	m2	93		
11.007	Covering of floors with ceramic tiles	m2	2.1		
11.008	Covering of floors with parquet upon a deck of planks	m2	45.9		
11.009	Porch of one step	m2	2		
11.010	Installation window boards of marble tiles	m2	2.8		
12	<b>Electrical installations/controls</b>				
	<b>Electric lighting</b>				
12.001	Group lighting meter-board ОЇÛÂ-12Ã4	No.	1		
12.002	Photo relay with transmitter ФР-2	No.	1		
12.003	Lighting fittings with luminiscent lamps	No.	15		
12.004	Consumer's chandelier	No.	6		
12.005	Wall lighting fitting НБ001-60	No.	1		
12.006	Wall lighting fitting ППР-100	No.	2		
12.007	Switch for hidden wiring	No.	5		
12.008	Switch Т-1	No.	3		
12.009	Outlets for hidden wiring	No.	9		
12.010	The same, for open wiring	No.	3		
12.011	Plastic boxes УПК-4	No.	31		
12.012	Laying of viniplastic pipes with a d. of 20 mm	m	48		
12.013	Laying of cable АБВРГ with sec. 2x2.5 mm2 along walls on buckles	m	188		
12.014	The same, in viniplastic pipes	m	48		
12.015	Laying of АППВС type wire with sec. of 2x2.5 mm2, hidden under plaster	m	90		
12.016	The same, in the slab hollows	m	20		
	Subtotal (Carry to next page)				

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**BILL No.: 07 - Ticketing Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
12.017	Cost of the lighting fitting УСП5-2640	No.	12		
12.018	УСП5-40	No.	3		
12.019	Consumer's chandelier with one lamp	No.	6		
12.020	The same, with two lamps	No.	1		
12.021	Lighting fitting НБ001-60	No.	1		
12.022	Lighting fitting ППР-100	No.	2		
12.023	Cost of luminiscent lamps ЛБ-40В6	No.	27		
12.024	The same, starters	No.	27		
12.025	The same, miscellaneous glow lamps	No.	10		
	<b>Fire alarm system</b>				
12.026	Installation of fire alarm station ТОЛ-10С	No.	1		
12.027	The same, for battery 10ЖН-60М	No.	1		
12.028	The same, for loud ringing bell М3-1	No.	1		
12.029	The same, for push-button informant ПКИЛ-9М	No.	1		
12.030	The same, for heat transmitter of the informant ИП105-2/1	No.	8		
12.031	Laying of ТРП type wire with sec. 1x2x0.5 mm <sup>2</sup>	m	60		
12.032	Plastic branch box	No.	2		
12.033	Installation of wall lamp socket with lamp	No.	1		
12.034	Installation of power supply block БП-24/4 of the station	No.	1		
	<b>Phone Communication</b>				
12.035	Installation of distributor box КРТП-10	No.	1		
12.036	The same, outlets РТЩ	No.	4		
12.037	Laying of wire ТРП-2x0.4 mm <sup>2</sup>	m	90		
	<b>Radio</b>				
12.038	Installation of branch boxes УК-2П	No.	3		
12.039	The same, box УК-2Р	No.	7		
12.040	Installation of radio outlets РПЖ-2 for hidden wiring	No.	4		
12.041	The same, for open wiring	No.	3		
12.042	The same, PPW-2x0.6	m	95		
13	<b>Water supply/sewerage/heating</b>				
	<b>Water Supply</b>				
13.001	Laying of water-gas galvanised pipes, d=15 mm	m	3		
13.002	Laying of water-gas galvanised pipes, d=20 mm	m	10		
13.003	Test of the system	m	13		
13.004	Cost of globe valve 15к486, d=20 mm	No.	1		
13.005	Oil painting of pipes in 2 times	m <sup>2</sup>	3		
	<b>Sewerage</b>				
13.006	Laying of cast iron pipes with the d=50 mm	m	2		
13.007	Laying of cast iron pipes with the d=100 mm	m	15		
13.008	Installation of faience wash basins "УТРО" type with a tap	No.	1		
13.009	Cast iron WC with a cistern	No.	1		
	Subtotal (Carry to next page)				

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**BILL No.: 07 - Ticketing Building**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
	<b>Heating</b>				
13.010	Installation of radiant heaters M140AO	esm*	14		
13.011	Laying of steel pipes, d=15 mm	m	64		
13.012	Test of the system	LS	-	-	
13.013	Cost of globe valve 15к418P2, d=15 mm	No.	4		
13.014	Double control valve ËÐÃØ, d=15 mm	No.	5		
13.015	Installation of the Eng. Maevsky's air valve, d=15 mm	No.	2		
13.016	Oil painting of the pipes and radiant heaters in 2 times	m2	15		
13.017	Lubrication of the pipes with mastic compoun in the ducts	m2	0.4		
13.018	Insulation of pipes with mineral wool boards	m3	0.01		
13.019	Covering of the insulation with plastics PLT	m2	2.4		
	<b>Ventilation</b>				
13.020	Installation of abat-vents ДБК-5, d=500 mm	No.	1		
13.021	Linear air terminal device 150 sec. 150x150 mm	No.	1		
13.022	Air pipeline of galvanised steel, t=0.5 mm, d=200 mm	m2	1		
<b>14</b>	<b>Pavement and Road Works</b>				
14.001	Traffic barrier (booms)	No.	3		
14.002	Other(to be inserted by the bidder)				
	Total (Carry to summary Bill no. 07)				

\*- equivalent square meter

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BILL No.: 08, Public Services Building

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>03</b>	<b>Earthworks</b>				
03.001	Excavation of soil for foundations to depot on site	m3	145		
03.002*	Transportation of soil to approved dump	m3	145		
03.003	Backfilling of sand from depot	m3	122		
03.004	Levelling and compaction of the sand in layers of 20 cm	m3	122		
03.005	Gravel layer under strip foundations, 10 cm thick	m3	8.3		
03.006	Compaction of the soil with gravel under floors	m2	1.95		
03.007	Sand bedding under floors of the porch	m3	14.5		
<b>06</b>	<b>Concrete works</b>				
06.001	Reinforcement of monolithic RC structures	kg	2862		
06.002	10 cm concrete blinding under foundations from concrete B-7.5	m3	7		
06.003	Monolithic RC strip foundations from concrete B-15	m3	22.5		
06.004*	Monolithic RC posts of frames of concrete B-20	m3	2.64		
06.005*	Monolithic RC girders of frames with a height of up to 500 mm at the height of up to 6 m from concrete B-20	m3	4		
06.006	Monolithic RC lintels from concrete B-15	m3	0.88		
06.007	Monolithic RC belt from concrete B-15	m3	4.64		
06.008	Monolithic RC parts of floors from concrete B-15	m3	4.12		
06.009	Installation of pre-cast RC hollow slabs of floors 1ПК59.12-8АТ.С9		?		
06.010	1ПК71.10АТ.С9	piece	4		
06.011	1ПК71.12АТ.С9	piece	5		
06.012	1ПК59.10АТ.С9	piece	8		
06.013	1ПК59.12АТ.С9	piece	2		
06.014	Concrete blinding of 8 cm from concrete B7.5 under floors	m3	10.9		
06.015	Concrete blinding under floors of platforms and steps from concrete B-7.5	m3	14.1		
06.016	Installation of concrete steps	l/m	70.8		
06.017	10 cm concrete blinding from concrete B-15 for canals	m3	9		
06.018	Installation of pre-fabricated RC slabs of canals ПТ12.5-8.6	piece	73		
	Subtotal (Carry to next page)				

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Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
07	<b>Masonry works</b>				
07.001	Foundation walls of "cubic" stones, 39 cm thick on mortar 1-50	m2	49.9		
07.002	Horizontal insulation of walls with cement mortar with a thickness of 20 mm	m2	25		
07.003	Side insulation of the foundation walls with cement mortar	m2	87		
07.004	Outside walls of "cubic" stones, 39 cm thick on mortar 1-50	m2	156.2		
07.005	The same, for inside walls	m2	29.5		
07.006	Partitions of bricks, 12 cm thick	m2	95.3		
07.007	Porch walls from "cubic" stone, 19 cm thick	m2	3.2		
07.008	Walls of canals from "cubic" stone, 19 cm thick	m2	35.8		
07.009	The same, 39 cm thick	m2	1.8		
07.010	The same, from bricks with a thickness of 12 cm	m2	7.6		
07.011	Side insulation of the duct walls with cement mortar	m2	24		
07.012	Finishing of ceilings for painting	m2	136		
07.013	Plastering type improved of the inside walls	m2	399		
07.014	Plastering type improved of indoor window and door reveals	m2	9		
07.015	Complete aligning of concrete girders	m2	16		
07.016	High quality plastering of the facade walls	m2	189		
07.017	High quality plastering of the facade slopes	m	28		
07.018	Plastering of the inside walls with dry cementation	m2	51		
08	<b>Steel works</b>				
08.001	Installation of steel angles No 63 in duct corners	kg	38		
09	<b>Roofing works</b>				
09.001	Water insulation of one bitumenous felt layer	m2	159		
09.002	Cement blinding, 30 cm thick on roof	m2	159		
09.003	Roofing of 3 layers of fibre glass bitumenous felt	m2	159		
09.004	Cement blinding of 20 mm under floors (2 layers)	m2	302		
09.005	Water insulation of two layers of mastic compound under the floors	m2	151		
09.006	Side insulation with bitumenous in 2 times	m2	87		
09.007	The same, with bitumenous in 2 times	m2	24		
	Subtotal (Carry to next page)				

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Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
10	<b>Joinery works</b>				
10.001	Installation of polished door blocks in outside walls with the ДН21x10 lock	No.	2		
10.002	The same, in inside walls with lock ДГ21-9	No.	2		
10.003	The same, in partitions				
	ДГ21-9	No.	5		
10.004	ДГ21-7	No.	2		
10.005	ДГ16-7	No.	7		
10.006	Installation of window blocks from PEMOPEN with glazing with insulating glass unit, dim. 1.4x1.8 m	No.	1		
10.007	Installation of stained glass windows from PIMAPEN with door of 2.0x2.5	No.	1		
10.008	The same, with blind transoms of 1.2x2.5	No.	2		
10.009	Glazing of the stained glass windows of 6 mm with polished glass	m2	11		
10.010	Installation of window boards from marble tiles	m2	2.6		
10.011	Installation of a wooden barrier	m	3		
11	<b>Finishing works</b>				
11.001	Facing of walls with glazed ceramic tiles	m2	175.1		
11.002	White washing of the ceilings and walls	m2	190		
11.003	Improved water-emulsion painting of the ceilings	m2	81		
11.004	Improved oil painting of the walls	m2	100		
11.005	The same, the slopes	m2	9		
11.006	Facing of outside walls with limestone tiles, plinths	m2	12.6		
11.007	Perchlorumvinil painting of the facade walls	m2	210		
11.008	Floor covering of ceramic tiles	m2	78		
11.009	Floor covering of marble tiles	m2	72.8		
11.010	Covering of the platforms from ceramic tiles	m2	48.4		
12	<b>Electrical installations/controls</b>				
12.001	Group lighting meter-board YOЩВ-12АУХЛ4	No.	1		
12.002	Photo relay with transmitter ФР-2	No.	1		
12.003	Lighting fittings with luminiscent lamps up to 6 pieces	No.	14		
12.004	Lighting fitting with glow lamps НП-001	No.	8		
12.005	The same, for walls	No.	3		
12.006	Switch Т-1 for hidden wiring	No.	9		
12.007	Outlets for hidden wiring	No.	4		
12.008	The same, for open wiring	No.	2		
12.009	Plastic boxes УПК-4	No.	25		
12.010	Laying of wires АППВС with sec. 2x2.5 mm2 under plaster	m	170		
12.011	The same, in slab hollows	m	55		
12.012	Laying of cable АППВГ with sec. 2x2.5 mm2 along walls on buckles	m	32		
12.013	The same, sec. 4x2.5 mm2	m	20		
	Subtotal (Carry to next page)				

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Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
12.014	Cost for lighting fitting with luminiscent lamps Л104Б-6x20	No.	1		
12.015	The same, Л104Б-4x20	No.	13		
12.016	The same, for luminiscent lamps ЛТБЦ-20	No.	58		
12.017	The same, for starters	No.	58		
12.018	The same, for ceiling lighting fitting НП001	No.	8		
12.019	The same, for wall lighting fittings НБ005	No.	3		
12.020	The same, for glow lamps	No.	11		
	<b>Fire Alarm System</b>				
12.021	Installation of the fire alarm station ТОЛ-10С	No.			
12.022	The same, accumulator battery 10ЖН60М	No.	1		
12.023	The same, loud ringing bell НЗ-1	No.	1		
12.024	Installation of push-button informant ПКИЛ-9М	No.	1		
12.025	Installation of heat transmitter ИП105-2/1 of the informant	No.	21		
12.026	Laying of wire ТРП, sec. 1x2x0.5 mm2	m	120		
12.031	Plastic branch box	No.	1		
12.032	Installation of lamp socket with a lamp	No.	1		
12.033	Installation of power supply block БП-24/4 for the station	No.	1		
	<b>Phone Communication</b>				
12.034	Installation of the КРТП-10 distribution box	No.	1		
12.035	The same, the РТШ outlet	No.	4		
12.036	Laying of wire ТРП-2x0.4 mm2	m	90		
	<b>Radio</b>				
12.037	Installation of branch box УК-2П	No.	1		
12.038	The same, branch box УК-2Р	No.	2		
12.039	The same, radio outlet РПВ-2 for hidden wiring	No.	2		
12.040	Laying of the ППВ-2x0.6 mm2 wire	m	20		
13	<b>Water supply/sewerage/heating</b>				
	<b>Water supply</b>				
13.001	Laying of water-gas galvanised pipes with d=15 mm	m	30		
13.002	Laying of water-gas galvanised pipes with d=20 mm	m	15		
13.003	Test of the system	LS	-	-	
13.004	Cost of globe valve 15ч8Р2, d=15 mm	No.	15		
13.005	Cost of globe valve 15ч8Р2, d=20 mm	No.	2		
13.006	Oil painting of the pipes in 2 times	m2	8		
	<b>Sewerage</b>				
13.007	Laying of cast-iron pipes with d=50 mm	m	12		
13.008	Laying of cast-iron pipes with d=100 mm	m	15		
13.009	Laying of cast-iron pipes with d=150 mm	m	32		
13.010	Installation of enamelled wash basin with a tap	No.	7		
13.011	Floor gully installation, d=100 mm	No.	2		
13.012	Installation of cast-iron WC pan with a cistern	No.	4		
13.013	Installation of steel sink with a tap	No.	2		
13.014	Installation of faience urinals	No.	4		
	Subtotal (Carry to next page)				

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Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
	<b>Heating</b>				
13.015	Installation of radiant heaters M-140-A	esm*	23.5		
13.016	Laying of steel pipes, d=15 mm	m	102		
13.017	The same, d=20 mm	m	6		
13.018	Test of the heating system	LS	-	-	
13.019	Cast-iron globe valve 15кч18п2, d=15 mm	No.	2		
13.020	The same, d=20 mm	No.	2		
13.021	Air valve of Engineer Maevsky, d=15 mm	No.	2		
13.022	Double control valve КРДШ d=15 mm	No.	7		
13.023	Oil painting of pipes and radiant heaters in 2 times	m2	25		
13.024	Lubrication of steel pipes with mastic compound	m2	3		
13.025	Insulation of steel pipes from mineral wool boards	m3	0.5		
13.026	Covering layer of glass fiber reinforced plastics PCT	m2	18		
	<b>Ventilation</b>				
13.027	Installation of consumer's air conditioner БК-2500	No.	1		
13.028	Installation an axial flow fan of "Five Stars" (Turkey), AXC-315 weghing 8 kg	No.	1		
13.029	The same, AXC-200A, weighing 5 kg	No.	2		
13.030	Air pipeline of galvanised steel, 0.7 mm thick sec. 500x250 mm	m2	1.5		
13.031	The same, d=300 mm, 0.6 mm thick	m2	3.1		
13.032	The same, d=200 mm	m2	6.3		
13.033	Control linear air terminal device P200, sec. 400x200	No.	6		
13.034	The same, P150 sec. 150x150	No.	11		
13.035	A cowl for air pipelines, d=200 mm	No.	2		
13.036	The same, d=300 mm	No.	1		
13.040	Other(to be inserted by the bidder)				
	Total (Carry to summary Bill no. 08)				

\*Equivalent square meter



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**BILL No.: 09. - Passenger Bridge**

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
<b>03</b>	<b><u>Earthworks</u></b>				
03.001*	Excavation of soil for foundations to depot on site	m3	350		
03.002*	Transportation of the soil to approved dump site	m3	350		
03.003*	Backfilling of sand from depot	m3	240		
03.004*	Levelling and compaction of sand in layers of 20 cm	m3	240		
03.002*	Gravel base, 10 cm thick	m3	37		
<b>06</b>	<b><u>Concrete works</u></b>				
06.001*	Reinforcement of foundations, posts, girders	kg	7511		
06.002*	Concrete blinding of 10 cm from concrete B7.5	m3	8.8		
06.003*	In-situ RC foundations for columns from concrete B20	m3	64.5		
06.004*	In-situ RC posts from concrete B20	m3	16		
06.005*	In-situ RC girders from concrete B20	m3	14		
06.006*	In-situ RC slabs from concrete B20	m3	7.6		
06.007*	Installation of concrete steps ЛС-14	m	257.6		
<b>08</b>	<b><u>Steel works</u></b>				
08.001*	Anchor bolts for fastening of the posts	kg	400		
08.002*	Built-in items in the in-situ structures	kg	132		
08.003*	Installation of steel frames from square pipes 140x140x6	kg	36170		
08.004*	100x100x4	kg	?		
08.005*	Installation of purlins from I-beams No 10	kg	11730		
08.006*	Floor base of the passenger bridge from 4 mm thick steel sheet	kg	16642		
08.007*	Covering of the roof with metal floor decking of 1 mm thickness	m2	610		
08.008*	Built-in items for frames from sheet steel with a thickness of 10 mm and 24 mm	kg	2290		
08.009*	Installation of handrails from steel pipes with d=32x4	m	940		
08.010*	Enclosure of the bridge with a net H=3,0 m	m2	1030		
08.011*	Installation of posts from pipes, d=245x6 mm,	kg	3920		
08.012*	Installation of bridgeboards and purlins from U-profile No 20	kg	6220		
08.013*	Stair guardrails with handrails from pine-tree	m	218		
08.014*	Reinforcing of the in-situ RC slab	kg	396		
08.015*	Installation of steel angle bars no. 50 x 5	kg	302		
08.016*	Laying parts made from steel plate	kg	211		
08.017*	Installation of stairs made from channel no. 20 tube D 30 x 5 of steel plate 5 mm thickness	kg	1196		
	Subtotal (Carry to next page)				

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## BILL No.: 09. - Passenger Bridge

Item No	Description	Unit	Quantity	Unit price in USD	Total price in USD
	Carried over				
<b>11</b>	<b>Finishing works</b>				
11.001*	Covering of the floor with asphalt, 3 cm thick	m2	559		
11.002*	Oil painting of the steel structures	m2	2130		
11.003*	Covering of platforms with ceramic tiles	m2	55		
<b>12</b>	<b>Electrical installations/controls</b>				
12.001*	Installation of lighting fixture НСП02 with incandescent lamps БК-220-150	No.	60		
12.002*	The same, plastic boxes Y409	No.	60		
12.003*	Laying of PVC pipes, d=20 mm	m	216		
12.004*	Pulling of the ППВ wire, size 2x1.5 mm <sup>2</sup> in the pipe	m	240		
12.005*	PVC connectors, d=100 mm	No.	60		
	Total (Carry to summary Bill no. 09)				

Filling of the soil has been taken into account in works for levelling of the platform

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