

**PRICED BILL OF QUANTITIES FOR
PRELIMINARY, PREPARATORY,
CONSTRUCTION AND FINISHING
WORKS**

Aleksandar Nenковиć pr.

PROJEKTOVANJE GRAĐEVINSKIH OBJEKATA VEKTOR

DESIGNER: SISTEM - Kragujevac

INVESTOR: CITY OF BELGRADE

BUILDING: PRIMARY SCHOOL ON CL 689/2 C.M. POLJANE

PROJECT: PGD

DATE: JULY, 2015

GENERAL CONDITIONS

- 1 The works shall be performed in accordance with valid technical regulations, normatives and mandatory standards for this type of building.
- 2 Adequate material, in accordance with the valid standards, i.e. with quality certificate, shall be used.
- 3 Measures for the safety of building and works, equipment and investment material, workers, passers-by, traffic and neighbouring buildings shall be timely implemented.
- 4 Technical documents based on which the approval for building (building permit) was issued shall be adhered to.
- 5 Item price shall include all costs for works, material, transport, cleaning of the building after completion of works, tax duties, profit and other expenses for the completion of works in accordance with the Contract Documents, technical regulations and valid average norms in civil engineering.

Item Description	UoM	No. of Units	Unit Price (RSD)	Total (RSD)
------------------	-----	--------------	------------------	-------------

A - PRELIMINARY WORKS

0 - PREPARATORY CONSTRUCTION WORKS

pos 1	Building site preparation, fencing, marking...	total	1.00 x	=	
pos 2	Clear the terrain before the start of building, including the removal of bushes, weeds, humus and remains of demolished building down to -20 cm depth in relation to the terrain level, and transport away from the building site to a town landfill at a distance of up to 20 km, with loading and unloading onto the vehicle and rough planning. Usable humus, for finishing works, shall be disposed of separately, which shall be calculated per m2.	m2	500.00 x	=	
pos 3	Mount and dismount metal piping facade scaffolding, for the works entirely under valid technical protection regulations and measures. The scaffolding must be statically stable, anchored to the building, and adequately earthed. Place working platforms spaced at 2m made of wood boards. On the exterior of the platforms edge the wood boards. The entire scaffolding surface shall be covered by jute or PVC sheeting. The scaffolding shall be accepted and approved through the Log by the Supervisor. It shall be used throughout the entire duration of works. The price shall be offered per m2 of building facade.	m2	254.59 x	=	

pos 4	Install handy shed to be used for disposing of tools, materials and housing workers. The shed shall be made of prefabricated elements or 1" boards with wooden structure. The shed shall be covered with boards and roof sheets, or using the material from the existing building. Lumpsum calculation for the item.	lumpsum	1.00 x	_____	=	_____
pos 5	Safety metal fence around the construction site, 2.00 m tall with entrance gates for workers, vehicles and machinery. The gates shall be equipped with locks and keys or padlocks. The fence shall be properly anchored and fixed to prevent overturning. The fence must be properly painted. It shall be used throughout the duration of works and paid only once, regardless of whether it has been dismantled and mounted again during the works. Put up warning signboards on the fence for passers-by. Calculation per m1 of fence.	m1	200.00 x	_____	=	_____
pos 6	Make cover for work, material processing and other. The cover shall be made using wooden boards and pipes for facade scaffolding or timber. Put a layer of tar paper over the wooden board cover and fasten using laths and nails. Calculation complete for all the necessary and built covers.	complete	1.00 x	_____	=	_____
pos 7	Make and put up signboards for notification of construction works with basic information about the building, Investor, Designer, Contractor and Supervisor. The dimensions of the table shall be 200x300x20cm. It shall be entirely in accordance with the RULEBOOK ON APPEARANCE, CONTENT AND PLACE OF POSITIONING OF CONSTRUCTION SITE SIGNBOARDS, published in the Official Gazette of RS, No. 4 of 29 January 2010. Calculation per piece of signboard.	pcs	2.00 x	_____	=	_____
pos 8	Make and put up signs and other warnings, in accordance with technical regulations. The dimensions of the sign shall be 80x60 cm. Calculation per piece of sign.	pcs	2.00 x	_____	=	_____
pos 9	Make and install signal lighting of the construction site, on the fences and/or scaffolding. The 220V installation (temporary construction site connection) or 12V, with lights protected by grill shall be placed in agreement with the supervisor, entirely in accordance with the regulations. Lumpsum calculation.	lumpsum	1.00 x	_____	=	_____
pos 10	Clean the construction site during the works. Cleaning shall be performed at least once in 15 days by transporting debris to the approved landfill. Paid once regardless of the number of cleanings. Calculation per m2 of gross building surface.	m2	227.77 x	_____	=	_____
TOTAL PREPARATORY CONSTRUCTION WORKS						_____

TOTAL A - PRELIMINARY WORKS

B - CONSTRUCTION WORKS

I - EARTHWORKS

pos 1 Mechanically excavate III category soil for foundation strips. Excavation shall be performed in accordance with the design and provided levels. Sides shall be cut off evenly and bottom levelled. Excavated soil shall be transported using a wheelbarrow, used for backfilling and levelling, or loaded on to a lorry and taken to a landfill to a distance of up to 5 km. Calculation per m3 (vegetated earth) including all the necessary works on securing the excavation and workers.

$$T1: (21.30+9.40+4.25+5.55*2+17.05)*0.70*1.30=57.42m3$$

$$(11.80*3+7.25+2.70)*0.70*1.30=41.27m3$$

$$T2: 0.80*0.80*1.30*2=1.66m3$$

$$m3 \quad 100.35 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 2 Mechanically excavate III category soil for foundation beams, staircase beams and foundation walls of the staircase and ramp. The excavation shall be done in accordance with the design and the given terrain levels. Sides shall be cut off evenly, and bottom levelled. Excavated soil shall be transported using a wheelbarrow, used for backfilling and levelling, or loaded on to a lorry and taken to a landfill to a distance of up to 5 km. Calculation per m3 including all the necessary works on securing the excavation and workers.

$$Tg: (4.50*2+3.05)*0.25*1.30=3.92m3$$

$$0.30*(6.36+2.09+1.20)*0.90=2.60m3$$

$$(4.72*0.25+1.00*0.30)*0.90=1.33m3$$

$$(6.25+0.64)*0.25*0.90=1.55m3$$

$$m3 \quad 9.40 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 3 Backfill and compact excavated soil around foundation walls in the ground. This work shall include loading the disposed off excavation in the wheelbarrow, transport to the backfilling location, unloading and spreading in layers of up to 20 cm and compacting in accordance with the regulations, with necessary wetting so as to reach the required even compactness, which will exclude subsequent settling. Minimum required value of the compaction module 30Mpa, shall be determined by the Supervisor based on the geomechanical report and technical conditions set out in the Main Design. Paid completely finished per 1 m3 of compacted layer.

$$0.60x0.40x(21.3*2+17.05+6.25+11.8*4)=$$

$$m3 \quad 27.14 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 4 Purchase, transport, spread and compact buffer layer under the foundation strips, foundation beams, foundation walls of the staircase and ramp and under the staircase slabs and ramp slab in d=10 cm. Compacting shall be performed mechanically to the module of compression of 30 Mpa. The backfilling material must not contain any muddy content or other compressible substances. After compacting, the backfill must be of required thickness and regular profile with accuracy of +/- 1 cm. Calculation per m3.

Foundation strips:

$$(21.30+9.40+4.25+5.55*2+17.05)*0.70*0.10=4.42\text{m}^3$$

$$(11.80*3+7.25+2.70)*0.70*0.10=3.17\text{m}^3$$

$$0.80*0.80*0.10*2=0.06\text{m}^3$$

Foundation beams, staircase beams, foundation staircase and ramp walls, staircase slab and ramp slab:

$$(4.50*2+3.05)*0.25*0.10=0.30\text{m}^3$$

$$(6.36+2.09+1.20)*0.30*0.10=0.29\text{m}^3$$

$$(4.72*0.25+1.00*0.30)*0.10=0.15\text{m}^3$$

$$(6.25+0.64)*0.25*0.10=0.17\text{m}^3$$

$$(12.14+3.70+5.22)*0.10=2.11\text{m}^3$$

$$\text{m}^3 \quad 10.67 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 5 Purchase, transport, spread and compact buffer layer under the floors (between the foundation walls above ground level) d=78 cm. Compacting shall be performed mechanically to the module of compression of 30 Mpa. The backfilling material must not contain any muddy content or other compressible substances. After compacting, the backfill must be of required thickness and regular profile with accuracy of +/- 1 cm. Calculation per m3.

Floors:

$$(42.00*2+30.00+31.03+12.60+41.86)*0.78=155.61\text{m}^3$$

$$\text{m}^3 \quad 155.61 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 6 Backfill and compact buffer 10-cm layer under the pavement. Compacting shall be performed mechanically to the module of compression of 20 Mpa. The backfilling material must not contain any muddy content or other compressible substances. After compacting, the backfill must be of required thickness and regular profile with accuracy of +/- 1 cm. Calculation per m3.

$$320.45-227.77=92.68 \times 0.10=9.26$$

$$\text{m}^3 \quad 9.26 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 7 Transport excess excavated soil to a landfill at a distance of up to 5 km. Calculation per m3 of loose material with loading, transport and unloading at the specified location.

$$(100.35+9.40-27.14) \times 1.45=119.13$$

$$\text{m}^3 \quad 119.13 \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

TOTAL EARTHWORKS

II- MASONRY WORKS

a-brickwork

- pos 1 Purchase material, transport and build construction and façade walls of the building d=25 cm, using KLIMABLOC (Zorka Šabac or similar construction material with identical thermal characteristics, and lime cement mortar 1:2:6. Calculation per m³, together with scaffolding.

$$(0.63*2+0.33+3.08+3.55+0.15+4.00)*3.00*0.25=9.28\text{m}^3$$

$$(4.65+4.95+4.00)*3.00*0.25=10.20\text{m}^3$$

$$(6.00+6.00)*3.00*0.25*2=18.00\text{m}^3$$

$$(0.50*2+5.00)*3.00*0.25=4.50\text{m}^3$$

$$(7.00+5.00+7.00)*3.00*0.25=14.25\text{m}^3$$

$$(0.50*2+1.60+3.15+3.15)*3.00*0.25=6.68\text{m}^3$$

$$\text{Deductions: } 1.00*1.80*0.25*2=0.90\text{m}^3$$

$$0.60*1.00*0.25*5=0.75\text{m}^3$$

$$0.90*2.60*0.25*6=3.51\text{m}^3$$

$$1.10*2.60*0.25*4=2.86\text{m}^3$$

$$\text{m}^3 \quad 54.89 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

- pos 2 Purchase the material, transport and build ground floor partition walls d=15cm using KLIMABLOC (Zorka Šabac or similar construction material with identical thermal characteristics), and lime cement mortar 1:2:6 or special adhesive. Calculation per m², together with scaffolding, horizontal AB ring beam and AB lintel beams.

$$(1.50+1.00+1.20)*3.00=11.10\text{m}^2$$

$$3.60*3.00=10.80\text{m}^2$$

$$(3.15*4+1.60)*3.00=42.60\text{m}^2$$

$$\text{Deductions: } 0.80+2.60*3=6.24\text{m}^2$$

$$2.80*3.00=8.40\text{m}^2$$

$$\text{m}^2 \quad 49.86 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

- pos 4 Purchase material, transport and build chimney, dimensions 60x60. The duct shall be made of industrial prefabricated elements (Schiedel or similar) made of light concrete. The joints should be wetted well and care should be taken that the mortar does not leak, so that the inside of the duct remains smooth. On the point of passage through floor ceiling the duct shall be insulated using tar paper. The price per m¹ shall include all fittings for connection as well as auxiliary scaffolding.

$$L=6.50\text{m}^1$$

$$\text{m}^1 \quad 6.50 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

- pos 5 Purchase the material, transport and enclose the chimney, using brick d=12 cm in lime cement mortar 1:3:9. The casing shall be anchored to the chimney at 1m height points using steel galvanized clamps. Calculation per m² of wall - complete with AB finishing ring d=8 cm on top and the necessary scaffolding.

$$(0.84+0.60*2)*6.50=13.26\text{m}^1$$

$$\text{m}^2 \quad 13.26 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

b-plastering

pos 6 Purchase material, transport, make the plaster and mechanically plaster the ceiling using lime cement mortar 1:3:9 or industrial plastic coated mortar in two layers, d=2.0 cm. The first rough layer -1.5 cm and second fine layer as finishing. Before plastering, spray all the surfaces using thin grout. Calculation per m2.

rooms: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
41.86+42.00+42.00+30.00+31.03+12.60=199.49m2

$$\text{m2} \quad 199.49 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 7 Purchase material, transport, make the plaster and mechanically plaster inside walls using lime cement mortar 1:3:9 or industrial plastic coated mortar in two layers, before plastering spray all the concrete surfaces using thin grout. The first rough layer -1.5 cm and second fine layer as finishing. Calculation per m2 with scaffolding.

Rooms: 1, 2, 3, 4, 5, 6, 13, 14, 15
(30.10+26.00+26.00+22.00+12.30+11.40+6.20+14.30)*2.84=421.17m2

$$\text{m2} \quad 421.17 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 8 Purchase material, transport, make the mortar and mechanically plaster walls, sanitary facilities as base for ceramic tiling, using lime cement mortar 1:3:9 or industrial plastic coated mortar in one layer. Clean surfaces before plastering and spray using grout. Use lime cement mortar up to 2 cm thick made of sifted "no. one" gravel and adhesive. Finished surfaces must be flat and coarse, without cracks or waves, and the edges sharp and straight. Wet the prepared mortar to avoid drying or burning. Calculation per m2 of plastered surface including auxiliary scaffolding.

Rooms: 7, 8, 9, 10, 11, 12
(2.70+1.80+1.80+1.20+2.34+1.20)*2.84=31.02m2

$$\text{m2} \quad 31.35 \quad \times \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

c-miscellaneous masonry works

pos 9 Make cement screed 1:3 d=6cm, reinforced with wire lath or welded reinforcement mesh fi 4mm, as floor base. The screed shall be made over thermal insulation. Calculation per m2.

Rooms: 1, 2, 3, 4, 5, 6, 13, 14, 15

$$3.59+31.33+42.00+42.00+30.00+8.82+8.03+2.40+8.66+3.47=180,30m2$$

$$m2 \quad 180.30 \quad x \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 10 Make cement screed 1:3 of variable cross section (3-6 cm), for floor grade in sanitary blocks, reinforced with wire lath or welded reinforcement mesh fi 4 mm, as floor base. The screed shall be made over waterproofing, separately calculated. Calculation per m2.

Rooms: 7, 8, 9, 10, 11, 12

$$2.70+1.80+180+1.20+2.34+1.20=11.04m2$$

$$m2 \quad 11.64 \quad x \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 11 Purchase material, transport and make cement screed 1:3, d=2-3 cm, on the staircase, as base for ceramic stair treads and risers. Calculation per m2 measured spread out.

$$14,98+(10,48+10,13+7,53+5,29+3,25+1,88)*0,15=20,76m2$$

$$5,25+(1,00*0,15*6)=6,15m2$$

$$m2 \quad 26.91 \quad x \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL MASONRY WORKS

III - CONCRETE AND REINFORCED CONCRETE WORKS

pos 1 Purchase material, transport, make concrete and concrete the pavement around the building and plateau, using MB 20 d=10 cm concrete on the buffer layer; simultaneously make rough cement screed and edge beam with 10/20 cm cross section. The pavement shall be made with 1% inclination from the building and dilated in 1/1.5 m1 sections, and the dilations filled with dilation filling. Reinforce the pavement using welded reinforcement mesh Q188, and edge beam with 4Ø 8; U Ø6/25. Calculation per m2 complete.

$$m2 \quad 92.60 \quad x \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 2 Purchase material, transport, make concrete and concrete reinforced floor slab, d=12 cm thick. Build in the reinforcement according to static calculations, calculated separately. Concreting shall be done simultaneously with floor ring beams that shall be calculated separately. Calculation per m2.

$$30.00+42.00+31.03+41.86+42.00+12.60=199.49m2$$

$$m2 \quad 199.49 \quad x \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 3 Purchase material, transport, make concrete and concrete AB foundation strips and pad foundations using MB 30 concrete, with mandatory vibrating of the concrete mix. Reinforcement in accordance with technical calculations. Calculation per m3 of built-in concrete with all the necessary formwork.

$$\begin{aligned} \text{POS T1: } & (21.30+9.40+4.25+5.55*2+17.05)*0.70*0.40=17.67\text{m}^3 \\ & (4.55+6.55+11.80+6.55+11.80+2.70)*0.70*0.40=12.31\text{m}^3 \\ & 0.70*1.24*0.40=0.35\text{m}^3 \\ \text{POS T2: } & 0.80*0.80*0.40*2=0.51\text{m}^3 \end{aligned}$$

$$\text{m}^3 \quad 40.84 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 4 Purchase material, transport, make concrete and concrete AB foundation beams using MB 30 concrete with mandatory vibrating of the concrete mix. Reinforcement per static calculation. Calculation per m3 of built-in concrete with all the necessary formwork.

$$\begin{aligned} \text{POS Tg:} \\ (3.05+4.50*2)*0.25*0.40=1.21\text{m}^3 \end{aligned}$$

$$\text{m}^3 \quad 1.21 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 5 Purchase material, transport, make concrete and concrete AB foundation ring beams using MB 30 concrete, with mandatory vibrating of the concrete mix. Reinforcement in accordance with technical calculations. Calculation per m3 of built-in concrete with all the necessary formwork.

$$\begin{aligned} \text{POS HS:} \\ (1.63+1.00*2+1.63+1.33+3.08+3.55+1.15+4.00)*0.25*0.20=0.92\text{m}^3 \\ (4.65+4.95+4.00)*0.25*0.20=0.68\text{m}^3 \\ 6.00*0.25*0.20*2=0.60\text{m}^3 \\ (6.00+3.60+6.00)*0.25*0.20=0.78\text{m}^3 \\ (1.50+1.00*3+1.50+5.00)*0.25*0.20=0.55\text{m}^3 \\ (7.00+1.60+3.15)*0.25*0.20=0.59\text{m}^3 \\ 7.00*0.25*0.20=0.35\text{m}^3 \\ (1.50+1.00*3+1.50+1.60+3.15)*0.25*0.20=0.54\text{m}^3 \\ 3.15*0.25*0.20=0.16\text{m}^3 \end{aligned}$$

$$\text{m}^3 \quad 5.17 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 6 Purchase material, transport, make concrete and concrete foundation walls using MB 20 concrete, d=25 cm, in two-sided formwork, with mandatory vibrating of the concrete mix. Reinforcement in accordance with technical calculations. Calculation per m3 of built-in concrete with all the necessary formwork.

$$\begin{aligned} (1.63+1.00*2+1.63+1.33+3.08+3.55+1.15+4.00)*0.25*1.30=5.97\text{m}^3 \\ (4.65+4.95+4.00)*0.25*1.30=4.42\text{m}^3 \\ 6.00*0.25*1.30*2=3.90\text{m}^3 \\ (6.00+3.60+6.00)*0.25*1.30=5.07\text{m}^3 \\ (1.50+1.00*3+1.50+5.00)*0.25*1.30=3.58\text{m}^3 \\ (7.00+1.60+3.15)*0.25*1.30=3.82\text{m}^3 \\ 7.00*0.25*1.30=2.28\text{m}^3 \\ (1.50+1.00*3+1.50+1.60+3.15)*0.25*1.30=3.49\text{m}^3 \\ 3.15*0.25*1.30=1.02\text{m}^3 \\ 1.24*0.92*0.80=0.91\text{m}^3 \end{aligned}$$

$$\text{m}^3 \quad 34.46 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 7 Purchase material, transport, make concrete and concrete staircase beams and staircase and ramp foundation walls using MB 30 concrete, d=30 and 25 cm, in two-sided formwork, with mandatory vibrating of the concrete mix. Reinforcement in accordance with technical calculations. Calculation per m3 of built-in concrete with all the necessary formwork.

$$(2,12+6,36+1,20)*0,30*0,80=2,32\text{m}^3$$

$$1,00*0,30*0,80+7,25*0,25=2,05\text{m}^3$$

$$0,92*0,25*0,80+6,97*0,25=1,92\text{m}^3$$

$$\text{m}^3 \quad 6.29 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 8 Purchase material, transport, make concrete and concrete AB pillars and vertical ring beams using MB 30 concrete, in board or metal formwork, with mandatory vibrating of the concrete mix. Reinforcement in accordance with technical calculations. Calculation per m3 of built-in concrete with all the necessary formwork.

$$S1, S2: 0.25*0.25*4.90*2=0.61\text{m}^3$$

$$VS: 0.25*0.25*4.90*30=9.19\text{m}^3$$

$$\text{m}^3 \quad 9.80 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 9 Purchase material, transport, make concrete and concrete AB floor structure FERT d=4+16 cm, using MB 30 concrete. The price shall include purchase, transport and installation of semi-prefabricated AB elements, as well as additional concreting on the spot. Calculation per m2 of complete ceiling, together with formwork and braces.

$$\text{POS 1, POS 2, POS 3, POS 4, POS 5:}$$

$$73.50+44.10+42.00+15.76+44.42=219.78\text{m}^2$$

$$\text{m}^2 \quad 219.78 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 10 Purchase material, transport, make concrete and concrete AB beams, girders and ring beams using MB 30 concrete in woodboard formwork. Build in reinforcement in accordance with static calculations. Calculation per m3, together with the formwork.

$$\text{POS 11: } 7.00*0.25*0.60=1.05\text{m}^3$$

$$\text{POS 12: } (7.00+1.60)*0.25*0.60=1.29\text{m}^3$$

$$\text{POS 13: } (1.63+1.00*2+1.63+1.33+3.08+3.55+1.15)*0.25*0.60=2.16\text{m}^3$$

$$\text{POS 14, POS 15, POS 16 : } 3.60*0.25*0.20*3=0.54\text{m}^3$$

$$\text{POS 17, POS 18: } 5.00*0.25*0.40*2=1.00\text{m}^3$$

$$\text{POS HS:}$$

$$4.00*0.25*0.20=0.20\text{m}^3$$

$$(4.65+4.95+4.00)*0.25*0.20=0.68\text{m}^3$$

$$6.00*0.25*0.20*4=1.20\text{m}^3$$

$$5.00*0.25*0.20=0.25\text{m}^3$$

$$(7.00+5.00)*0.25*0.20=0.60\text{m}^3$$

$$7.00*0.25*0.20=0.35\text{m}^3$$

$$3.15*0.25*0.20*2=0.32\text{m}^3$$

$$\text{m}^3 \quad 9.64 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 11 Purchase material, transport, make concrete and concrete AB window and door lintels using MB 30 concrete in woodboard formwork. Build in reinforcement in accordance with static calculations. Calculation per m3, together with the formwork.

Window lintels:

$$1.00 \times 0.25 \times 0.20 \times 2 = 0.10 \text{ m}^3$$

Door lintels:

$$3.05 \times 0.25 \times 0.20 = 0.15 \text{ m}^3$$

$$1.30 \times 0.25 \times 0.20 \times 8 = 0.52 \text{ m}^3$$

$$\text{m}^3 \quad 0.77 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 12 Purchase material, transport, make concrete and concrete AB console cornice using MB 30 concrete in woodboard formwork. Build in reinforcement in accordance with static calculations. Calculation per m3, together with the formwork.

$$(22.69 + 7.17 \times 2 + 5.17 + 12.75 + 8.18 + 3.65) \times 0.92 \times 0.10 = 6.14 \text{ m}^3$$

$$(5.13 \times 2 + 4.10) \times 0.80 \times 0.10 = 1.15 \text{ m}^3$$

$$\text{m}^3 \quad 7.29 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 13 Purchase material, transport, make concrete and concrete AB staircase slanted and straight slabs on the floor, simultaneously. Cast the stairs using MB 30 concrete in smooth form. Slab thickness d=15 cm. Build in reinforcement in accordance with static calculations and calculate separately. Calculation per m3, measuring slanted slab surface of the staircase and horizontal for landings together with the formwork.

Entrance staircase:

$$3.09 \times 0.15 + ((3.36 + 6.36) : 2 \times 2.05 + (0.92 + 2.42) : 2 \times 2.05 + 0.75 \times 2.05) / 0.22 = 3.74 \text{ m}^3$$

Side staircase:

$$4.00 \times 0.15 + 1.50 \times 1.00 \times 0.22 = 0.93 \text{ m}^3$$

$$\text{m}^3 \quad 4.67 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 14 Purchase material, transport, make concrete and concrete AB slanted ramp slab using MB30 concrete in smooth form. Slab thickness d=12 cm. Build in reinforcement in accordance with static calculations and calculate separately. Calculation per m3, measured by slanted slab surface together with the formwork.

$$0.80 \times 6.60 \times 0.12 = 0.63 \text{ m}^3$$

$$\text{m}^3 \quad 0.63 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL CONCRETE AND REINFORCED CONCRETE WORKS

IV - REINFORCEMENT WORKS

- pos 1 Purchase, straighten, clean, bend, install and tie reinforcement, entirely in accordance with the design and the details of foundation reinforcement and foundation beams. Paid all complete per kg of finished reinforcement, regardless of the profile or type of concrete iron. Calculation per kg. (This quantity is approximate, taken per m2 of gross surface of the building - 25 kg of reinforcement. The exact quantity and specification is available in reinforcement details).

GA 240/360

kg 525.97 x _____ = _____
RA 400/500

kg 4211.20 x _____ = _____
MA 500/560

kg 2881.09 x _____ = _____

TOTAL REINFORCEMENT WORKS

V - CARPENTRY WORKS

- pos 1 Purchase material, make, transport and install light wooden lattice roof structure (LKV). Girders shall be made of sound coniferous wood according to the description provided in the technical description to this design, entirely in accordance with static calculations and structure details. The girders shall be treated against fungi and insects twice in the production process, according to the description provided in the technical description to this design. Local transport of girders and transport of girders to the construction site, as well as vertical transport in the building must be organised in such a way to exclude any possibility of damage to the poles or knot joints of the girders. The girders shall be transported in the position in which they will be exposed to load during exploitation. For lorry transport, girder restraints must be provided in designed or temporary knots. The mounting shall be entirely performed in accordance with the previously developed mounting design, which shall be the duty of the selected Contractor, and support joints and joints between the wooden elements, including bracing must be installed in accordance with the design and joint and support joint calculations. The price shall include the making of support metal shoe and the necessary connections (galvanized hardware). Calculation per m2 of horizontal roof projection.

P=321.61m2 α=22°

m2 321.61 x _____ = _____

- pos 2 Purchase material, transport and horizontally place dry white wood battens 5/8 cm, spaced at 80 cm, directly under the LKV girder.

Calculation per m2 of spread roof surface including chemical protection of roof timber.

P=321.61 m2 α=22°

P per pitch =321.61*1.078=346.70m2

m2 346.70 x _____ = _____

- pos 3 Purchase material, transport and lathing the roof structure using laths 40x50 mm transversally and 30x50 mm longitudinally to cover the roof surface using GERARD or similar type of cover. Calculation per m2 of roof surface.

P=321,61 m2 α=22°

P per pitch =321,61*1,078=346,70m2

m2 346.70 x _____ = _____

TOTAL CARPENTRY WORKS

VI - ROOFING WORKS

pos 1 Purchase material, transport and place roofing underlay type STRONG, MONARPERM or similar over the roof eaves, min. 140 g/m2. The underlay shall be vapour permeable and waterproof, folded as necessary depending on the roof pitch entirely in accordance with the producer recommendation. Calculation per m2 of roof surface.

P=321.61 m2 α=22°
 P per pitch =321.61*1.078=346.70m2

m2 346.70 x _____ = _____

pos 2 Purchase material, transport and cover the roof with roof cover type "OCTAVA", "GERARD", "METAL PLAST MC" or similar, made of steel sheet profiles, galvanized on both sides. The top of the deck shall be coated with protective polyester varnish, coated with a layer of acrylic resin with mineral aggregates spread over it. Use a layer of transparent acrylic varnish over the mineral aggregates. Roof decking shall be delivered in dimensions 1330 x 410 mm. The cover surface of roof decking shall be 1260 x 370 mm. All original fittings like ridges, ridge tiles, soffit boards (wind boards), wall linings, drips, sanitary and roof ventilation elements, valleys, flat sheets for chimney linings, etc. shall be from the GERARD programme or similar. The choice of colour of roof cover shall be agreed with the Designer based on samples. The mounting of the roof cover and all flushing and finishing original elements (nearly all sheet metal works on the roof, apart from the gutters) shall be in accordance with the producer's manual. Calculation (delivery and mounting of all the necessary elements) per m2 of roof surface.

P=321.61 m2 α=22°
 P per pitch =321.61*1.078=346.70m2

m2 346.70 x _____ = _____

TOTAL ROOFING WORKS	
TOTAL B - CONSTRUCTION WORKS (I-V)	

C - FINISHING WORKS

VII - DOORS AND WINDOWS

pos 1 Purchase and mount interior single panel doors, formed entirely in accordance with the schematic. The frame structure shall be made of first class laminated wood or industrially veneered plywood. The door wing shall be made of honeycomb panel with industrial veneer or good quality melamine finishing. The doors shall be supplied with standard hardware and lock with key. Calculation per m2 of mounted doors, complete with hardware and handle.

schematic 1 - 100/210 4 pcs
 schematic 2 - 80/210 5 pcs

m2 16.80 x _____ = _____

TOTAL DOORS AND WINDOWS	
--------------------------------	--

VIII - METAL WORKS

- pos 1 Purchase and mount aluminium, exterior façade partition with double-wing doors, fixed side parts and overhead light made of five-chamber aluminium profiles with improved thermal stop, glazed using triple low emission glass d=4+8+4+8+4mm, filled with krypton, formed entirely in accordance with the schematic. The parapet shall be made of thermal panels (two-side plastic coated steel sheet d=0.4 mm, with styrodur 40-mm filling). Build in reinforced hardware (Häfele or similar) and opening mechanism for automatic door closing. Doors shall be delivered finished and packed with aluminium pipe Fi 40 mm with handle, lock and key. Calculation per m2 of purchased and built-in doors.

schematic I - 360/220+80 pcs 1

$$\text{m2} \quad 10.80 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- pos 2 Purchase and mount aluminium, interior partitions with double-wing doors, fixed side parts and overhead light made of five-chamber aluminium profiles with improved thermal stop, glazed using double low emission glass d=4+8+4 mm, filled with krypton, shaped entirely in accordance with the schematic. The parapet shall be made of thermal panels (two-side plastic coated steel sheet d=0.4 mm, with styrodur 40 mm filling). Build in reinforced hardware (Häfele or similar) and opening mechanism for automatic door closing. Doors shall be delivered finished and packed with aluminium pipe Fi 40 mm handle, without a lock. Calculation per m2 of purchased and built-in doors.

schematic II - 280/220+80 pcs 1

$$\text{m2} \quad 8.40 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- pos 3 Purchase and mount single window made of PVC six-chamber profiles, glazed with triple low emission glass d=4+8+4+8+4 mm filled with krypton, shaped entirely in accordance with the schematic. The window shall be equipped with standard hardware and opening mechanism around the bottom horizontal axis. Place aluminium board and insect protection screen on the outside. The windows shall be delivered finished and packed. Calculation per m2 of purchased and built-in windows.

schematic III - 60/80 , 6 pcs

schematic IV - 100/160 , 18 pcs

$$\text{m2} \quad 31.68 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- pos 4 Purchase and mount single entrance metal door, shaped entirely in accordance with the schematic. The frame structure shall be made of steel and the wing fixed in three points. The door wing shall be made of metal panel with plastic finishing. The doors shall be equipped with hardware, handle and double lock with key. Calculation per m2 of purchased and built-in door.

schematic V - 110/220 2 pcs

$$\text{m2} \quad 4.84 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 6 Purchase and mount interior, single metal doors in sanitary block cabins, shaped entirely in accordance with the schematic. The frame and door wing structure shall be made of aluminium profiles, and the wings fixed in two points. The wing shall be cut short on the bottom. Wing filling shall be made of thermal panels (two-sides plastic coated steel sheet, d=0.4 mm with styrodur filling 40 mm). Doors shall be equipped with bolt for locking on the inside and occupancy indicator. Calculation per m2 of purchased and built-in doors.

schematic VI - 80/220 2 pcs
 schematicVII - 110/220 1 pcs

$$\text{m2} \quad 5.94 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

7 Supply and installation of interior lid on the roof ceiling shape at all according to the scheme. The construction of the frame and the lid is made of aluminum profiles, with fixing eyelid revolving around the hinges. Filling lid is made of thermal panels (both sides powder-coated steel sheet d = 0.4 mm with a filling of styrodur 30 mm) .. Sunroof supply section for closing the inside without a key. Calculation per item purchased and built-in valve with additional frame height of 20 cm. to prevent dissipation of thermal insulation

schematic VIII - 60/70 1 pcs

$$\text{pcs} \quad 1 \quad \times$$

pos 8 Make handrails on ramps and side staircase, at height 110 cm, made of standard polished stainless steel tubes Fi 20mm and ø 40 mm. The railing shall be anchored to the floor spaced at 1 m using vertical reinforced steel profiles. Calculation per m1 of complete railing.

ramp l=6.70m1
 staircase 5.33

$$\text{m1} \quad 12.03 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 9 Make galvanized steel mesh for shoe mat 1450/750/40 in angular frame 40/40/4, mesh structure of galvanized square 35/35/3 and filling made of flat iron bars 30/30/5 on 12 mm. Calculation complete for made and built in mash.

$$\text{complete} \quad 1.00 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 9 Purchase and mount steel galvanized chimney caps made of stainless steel sheet, 1.00-mm thick. Calculation per piece.

$$\text{pcs} \quad 1.00 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL METAL WORKS

IX - SHEET METAL WORKS

pos 1 Purchase material, make, transport and mount horizontal gutters with 0.5% downgrade made of galvanized sheet metal, on the roof, d=0.55 mm, spread width up to 40 cm. Include wood base to form inclination towards outlets. Calculation per m1.

$$22.69+6.37*2+5.70+4.25+14.59+5.13*2+9.10+5.49=84.82m1$$

$$m1 \quad 84.82 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 2 Purchase material, make, transport and mount vertical gutters made of galvanized sheet metal, d=0.55 mm, cross section ø100 mm. Calculation per m1.

$$5.00*4=20.00m1$$

$$m1 \quad 20.00 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 3 Purchase material, make, transport and mount sheathing for gutters made of galvanized sheet metal, d=0.55 mm, spread width 50 cm. Calculation per m1.

$$22.69+6.37*2+5.70+4.25+14.59+5.13*2+9.10+5.49=84.82m1$$

$$m1 \quad 84.82 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 4 Purchase material, make, and transport roof flashing around the chimney using galvanized sheet metal of spread width up to 50 cm. Calculation per m1.

$$1.34*2+0.84*2=4.36m1$$

$$m1 \quad 4.36 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 5 Purchase material, make and transport console cornice flashing using flat galvanized sheet metal of spread width up to 66 cm. Calculation per m1.

$$L=84.82m1$$

$$m1 \quad 84.82 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

pos 7 Purchase material, make, transport and mount window boards using aluminium standard profiles anodized in the colour chosen by the designer, d=1.00 mm, spread width up to 40 cm. Calculation per m1.

$$1.00*18+0.60*5=21.00m1$$

$$m1 \quad 21.00 \quad x \quad \underline{\hspace{2cm}} \quad = \quad \underline{\hspace{2cm}}$$

TOTAL SHEET METAL WORKS

X - TILING WORKS

pos 1 Purchase material, transport and tile the entrance staircase with floor unglazed first class tiles, in the colour chosen by the Designer. The edges of the staircase shall be finished with an edge fitting or stainless steel or anti-slip strip. The tiles shall be laid without joints, close together, in adhesive over previously levelled cement screed, in the pattern chosen by the designer. The price shall include all preparatory works, hole drilling, skirting at the level of 10 cm and cutting of the tiles. Calculation per m2 including tiles purchase and sawdust cleaning.

$$18.03+(10.16+8.96+7.76+6.56+5.36+4.96)*0.15=24.59m2$$

$$\text{Skirting: } (3.77+1.37+2.25)*0.10=0.74$$

$$m2 \quad 25.33 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 2 Purchase material, transport and tile the floor of the wind protection area, hallways, janitor's room and storage room using first class ceramic tiles 30/30, in the colour chosen by the Designer. The tiles shall be laid without joints, close together, in adhesive over previously levelled cement screed, in the pattern chosen by the Designer. The price shall include all preparatory works, hole drilling, skirting at the level of 10 cm and cutting of the tiles. Calculation per m2 including tile purchase and sawdust cleaning.

Rooms: 1, 2, 13, 14

$$3.59+31.33+8.03+2.40=45.35m2$$

$$\text{Skirting: } 36.90*0.10=3.69m2$$

$$m2 \quad 49.04 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 3 Purchase material, transport and tile the sanitary areas using first class ceramic tiles 20/30 cm, in the colour chosen by the Designer. The tiles shall be laid with visible grout joints in adhesive over previously levelled cement screed, in the pattern chosen by the Designer. The price shall include all preparatory works, hole drilling and cutting of the tiles. Calculation per m2 including tile purchase and sawdust cleaning.

Rooms: 7, 8, 9, 10, 11, 12
 $2.55+2.55+1.8+1.2+2.34+1.2=11,64\text{m}^2$

$$\text{m}^2 \quad 11.64 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 4 Purchase material, transport and tile walls in sanitary facilities using fist class wall ceramic tiles 20/20, on adhesive over roughly plastered wall surface. Tiles shall be placed with visible grout joints using crosses, and the combination of tiling and colour shall be chosen by the Investor. Place suitable plastic or metal strips on all edges. After tiling fill in the joints with grout compound. The price shall include all preparatory works, hole drilling and tile cutting. Calculation per m2, including tile purchase, grout jointing and cleaning with sawdust.

Rooms: 7, 8, 9, 10, 11, 12
 $(6,40+6,40+5,60+4,40+7,20+4,40)*3,00=103,20\text{m}^2$
 Deductions: $1.10*2,10*3=6.93\text{m}^2$
 $0,90*2,10*2=3.78\text{m}^2$
 $0.80*2.10*4=6.72$

$$\text{m}^2 \quad 85.77 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 5 Purchase material, transport and tile side staircase using unglazed first class tiles, in the colour chosen by the Designer. The edges of the staircase shall be finished using edge fittings or stainless steel and anti-slip strip. Tiles shall be laid without joints, close together, in adhesive over previously levelled cement screed, in the pattern chosen by the Designer. The price shall include all preparatory works, hole drilling, skirting at the level of 10 cm and cutting of the tiles. Calculation per m2 including tile purchase and sawdust cleaning.

$5.25+1.00*0.15*6=6.15\text{m}^2$
 Skirting: $3.23*0.10=0.32\text{m}^2$

$$\text{m}^2 \quad 6.47 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 6 Purchase material, transport and tile the entrance ramp using unglazed first class tiles in the colour chosen by the Designer. Ramp edges shall be finished using edge fitting or stainless steel strip. The tiles shall have anti-slip strip. Tiles shall be laid without joints, close together, in adhesive over previously levelled cement screed, in the pattern chosen by the designer. The price shall include all preparatory works, hole drilling, skirting on the façade at 10 cm and cutting of the tiles. Calculation per m2 including tile purchase and sawdust cleaning.

$5.25+1.00*0.15*6=6.15\text{m}^2$
 Skirting: $3.23*0.10=0.32\text{m}^2$

$$\text{m}^2 \quad 6.80 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL TILING WORKS

XI - FLOORING WORKS

pos 1 Purchase material, transport and install first class laminate flooring - click lock (class 32), d=9mm. Laminate shall be installed in accordance with producer instructions, over felt and foil underlay, using tightener and suitable edge strips that shall be fixed to the walls spaced at 80 cm. Mitre cut square joints. Calculation per m2.

Room 6 P=8.82m2

$$\text{m2} \quad 8.82 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 2 Purchase and transport the material and lay homogenous vinyl flooring, 2-mm thick, ware class P (under EN 600 and 660) with PUR protection, fire proofing Bfl-s1 (under EN 13501-1), weight up to 3,300 g/m2, class 34-43 (EN 685), anti-slip R9, dimension of rolls 2x23m, resistant to mould and fungi, on a previously prepared and flattened cement screed (max. moisture 2%). Dry-cut the vinyl flooring, glue to the floor using eco adhesive in dispersion – welding the joints together using electrode in the colour of the chosen flooring. After welding, the joints should be ideally aligned with the floor. All the floors shall be made with round vertical coves where they are continued up the wall at the level of 10 cm (in accordance with the special detail of the AG design). The quality and type of flooring shall be in the class of TARKETT – Standard Plus or equivalent (the Offeror is obligated to submit with the offer also certificates for materials proving that they are technically in accordance with the request, as well as environmental certificates).

Calculation per m2 of complete floor surface.

Rooms: 3, 4, 5

$$42.00+42.00+30.00=114.00\text{m}^2$$

$$\text{m2} \quad 114.00 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL FLOORING WORKS

XII - PAINT WORKS

pos 1 Paint the walls, previously plastered, using good quality dispersion paints chosen by the Designer - two times, with all the necessary preparatory works and skim coating of surfaces. Calculation per m2.

Rooms 1, 2, 3, 4, 5, 6, 13, 14, 15, 16

$$(1.45*2+29.70+26.00*2+22.00+12.30+11.40+6.20+11.80+8.50)*3.00=470.40\text{m}^2$$

$$\text{Deductions: } 5.00*2.10-3.00=4.84\text{m}^2$$

$$\text{m2} \quad 465.56 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

pos 2 Paint the ceiling, previously plastered, using quality semi-dispersion paints chosen by the Designer - two times, with all the necessary preparatory works and skim coating of surfaces. Calculation per m2.

Rooms 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

$$P=191.97\text{m}^2$$

$$\text{m2} \quad 191.97 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL PAINT WORKS

XIII - WATERPROOFING WORKS

- pos 1 Purchase material, transport and install horizontal floor waterproofing on the ground using single SBS (Styrene, Butadiene, Styrene) waterproofing strips on polyester felt or similar, over base concrete slab covered with Bitulight. Add cold Bitulight A coating on the prepared base and then waterproofing layers. Calculation per m2.

P=191.97 m2

m2 191.97 x _____ = _____

TOTAL WATERPROOFING WORKS

XIV- THERMAL INSULATION WORKS

- pos 1 Purchase material, transport and install horizontal thermal insulation on the groundfloor, thickness d=12 cm, floating floor. Calculation per m2.

m2 191.97 x _____ = _____

- pos 2 Purchase material, transport and install thermal insulation above roof decking, on the attic floor, made of mineral wool boardstock d=20 cm thick. Calculation per m2.

P=227.77m2

m2 227.77 x _____ = _____

- pos 3 Purchase material, transport and install vertical thermal insulation out of non-flammable hard-pressed mineral wool, class A2 on the façade walls of the ground floor, d=12 cm thick. Put mesh and adhesive on top, and façade coating Bavalit or similar (*Demit* façade) shall be calculated separately. Calculation per m2.

67.55 x 3.40 = 229.67

Deductions

1.00x1.60x18 + 0.6x0.8x6 x 1.0x2.10x2 =28.8+2.88+4.2=35.88

m2 193.79 x _____ = _____

- pos 4 Install thermal insulation of the attic under the roof cover, between the eaves, made of non-flammable mineral wool hard boards d=13 cm thick. Calculation per m2 of pitched surface.

P=346.70 m2 α=22°

m2 346.70 x _____ = _____

TOTAL THERMAL INSULATION WORKS

XV - FAÇADE WORKS

- pos 3 Purchase material, transport and make the façade over previously installed thermal insulation, using adhesive on the mesh, with white plastic mortar Bavalit or similar, using roller. The base must be healthy and dry. Put plastic mortar over dry surface, mixed into a consistent, uniform mass. Use trowel to apply and roller to achieve the structure. The thickness of the layer must be equal to the grain size in plastic mortar. Openings and other shall be protected using PVC foil. Calculation per m2.

$$\text{m2} \quad 193.79 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- pos 2 Purchase material, transport and install skirting, made of artificial stone with "pikovanje" finishing, in the colour chosen by the designer. Calculation per m2.

$$\text{m2} \quad 60.80 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL FAÇADE WORKS

XVI - MISCELLANEOUS WORKS

- pos 1 Final cleaning of the building, all the rooms, windows, floors and ceramic tiles.
Calculation per m2 of building surface.

$$\text{m2} \quad 191.97 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- pos 2 Supply, delivery and equipping of sanitary and bathroom accessories for the disabled
- Stainless steel bracket fixed to the wall x2
- Upper bracket over the toilet bowl fixed to the ceiling x1
The price includes delivery and installation total all listed above equipment per bathroom with all necessary elements for installation.

$$\text{kompl} \quad 1.00 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- pos 3 Supply, delivery and montage of the graphics for the safe evacuation of the building on aluminum plates with thickness of 2 mm. Bullets are printed or of highly resistant, fluorescent 3M or similar foil :
- FIRE ESCAPE LEFT - type H - 100/40 mm pcs 2
- FIRE ESCAPE RIGHT - type H - 100/40 mm kom 2
- FIRE ESCAPE - type H - 100/40 mm kom 1
- FIRE EXTINGUISHER - type A - 60/80 mm kom 5

The price includes total delivered and mounted graphic listed above

$$\text{kompl} \quad 1.00 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

TOTAL MISCELLANEOUS WORKS

SUMMARY

A - PRELIMINARY WORKS

0- PREPARATORY CONSTRUCTION WORKS

RSD

A - TOTAL PRELIMINARY WORKS

RSD

B - CONSTRUCTION WORKS

I - EARTHWORKS

RSD

II - MASONRY WORKS

RSD

III - CONCRETE AND REINFORCED CONCRETE WORKS

RSD

IV - REINFORCEMENT WORKS

RSD

V - CARPENTRY WORKS

RSD

VI - ROOFING WORKS

RSD

B - TOTAL CONSTRUCTION WORKS (I - VI)

RSD

TOTAL (A+B)

C - FINISHING WORKS

VII - DOORS AND WINDOWS

RSD

VIII - METAL WORKS

RSD

IX - SHEET METAL WORKS

RSD

X - TILING WORKS

RSD

XI - FLOORING WORKS

RSD

XII - PAINT WORKS

RSD

XIII - WATERPROOFING WORKS

RSD

XIV - THERMAL INSULATION WORKS

RSD

XV - FAÇADE WORKS

RSD

XVI - MISECELLANEOUS WORKS

RSD

C - TOTAL FINISHING WORKS (VII-XVI)

RSD

TOTAL (A+B+C) RSD
