

**BILL OF QUANTITIES OF CIVIL AND SPECIALIST'S WORKS
for High school "Mladost" in Petrovac na Mlavi**

No.	DESCRIPTION	UoM	Quant.	Unit price	Total:
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I ASSEMBLING-DISASSEMBLING WORKS AND DEMOLITION

1.1.	Careful disassembly of the wooden portal in the corridor, area of 14.2 m2. Disassembled portal shall be loaded onto a truck and transported to the landfill or a place specified by the Investor within 10 km. Calculation per piece of portal.	pcs	1.00		
1.2.	Careful disassembly of matchboarding under the stairs in the corridor, area of 2 x 6.00 m2. Disassembled matchboarding shall be loaded onto a truck and transported to the landfill or a place specified by the Investor within 10 km. Calculation per piece.	pcs	2.00		
1.3.	Careful disassembly of matchboarding from the walls in classroom 1 and classroom 2. Disassembled matchboarding shall be cleaned, packed, loaded onto a truck and transported with debris to the landfill within 10 km. Calculation per m2.	m2	30.80		
1.4.	Careful disassembly of wooden windows, doors, portals and roof lights with lintels. Disassembled doors, portals and roof lights shall be loaded onto a truck and transported to the landfill or a place specified by the Investor within 10 km. Calculation per piece.				
	less than 2.00 m2	pcs	22.00		
	from 2.00 - 5.00 m2	pcs	5.00		
	over 5.00 m2	pcs	5.00		
1.5.	Careful disassembly and re-assembly of the radiators after walls are painted, including any repair or adjustment of connections, replacement of damaged or defective valves and making radiators and all disassembled and re-assembled elements of heating installations functional again. Radiators shall be dismantled, packed and re-mounted once they are painted. Calculation per piece.				
	1. lobby	pcs	2.00		
	2. physics classroom	pcs	2.00		
	3. accounting and kitchen	pcs	5.00		
	4. Student Parliament	pcs	3.00		
	5. reading room	pcs	2.00		
	6. corridor and toilets towards classrooms	pcs	6.00		
	7. classroom 1, classroom 2 and biology classroom	pcs	7.00		
	8. chemistry classroom	pcs	3.00		
	9. chemistry classroom laboratory	pcs	1.00		
	10. psychology classroom	pcs	1.00		
	13. Headteacher's office	pcs	2.00		
	14. Secretary's office	pcs	1.00		
	16. teacher's lounge	pcs	3.00		
	17. caretaker's apartment	pcs	4.00		

1.6.	Careful disassembly of radiator covers. Covers shall be dismantled, packed and transported to the landfill or a place specified by the Investor, within 10 km. Calculation per piece.				
	1. Secretary's office	pcs	1.00		
1.7.	Moving wall shelves and returning them after walls are painted. Calculation per piece.				
	13. Headteacher's office, dim. 4,85 x 2,42 m	pcs	1.00		
	14. Secretary's office, dim. 4,96 x 2,42 m	pcs	2.00		
	16. teacher's lounge, dim. 7,70 x 2,45	pcs	3.00		
1.8.	Moving metal cash register and returning it after walls are painted, in the Secretary's office. Calculation per piece.	pcs	1.00		
1.9.	Careful disassembly of the plywood cover from sewer pipes, in students' parliament. The item includes material supply and transport, fabrication of a new cover made of waterproof plasterboards on adequate substructure, developed width of 75cm, with two inspection eyes, metal doors dim.20/20 cm. Cover is 7.4 m long. Calculation per piece.	pcs	1.00		
1.10.	Careful disassembly of the fan in the chemistry classroom laboratory, from the opening in the wall dim. 63x57.5 cm and fan handover to the Investor. The item includes supply, transport and installation of wall axial fan, diameter 200mm, type HXM-200, JAK-KA Group, Soler&Palau, or equivalent, power 30W, with max.air flow of 500 m3/h, noise level 36 (db(A)), a single-phase motor 230V-50Hz, with the possibility of regulation, with built-in power cord and the rotor with low friction bearings. The price includes supply and installation of flexible hose and accessories. Calculation per piece.	pcs	1.00		
1.11.	Demolition of wall tiles. Stripping tiles and the base to the wall. Debris shall be collected, loaded onto a truck and transported to landfill up to 10 km. Calculation per m2.				
	1. lobby - wall tiles	m2	14.50		
	8. chemistry classroom - wall tiles	m2	7.50		
1.12.	Stripping off flexible mortar from interior walls. Mortar shall be stripped off and clamps used for cleaning joints up to 2cm deep. Clean brick surface with wire brush and wash the walls with water. Debris shall be collected, removed, loaded onto a truck and transported to the landfill. Calculation per m2.				
	1. lobby	m2	68.00		
	2. physics classroom	m2	97.00		
	3. accounting and kitchen	m2	28.30		
	4. Student Parliament	m2	80.00		
	5. reading room	m2	3.00		
	7. classroom 1, classroom 2 and biology classroom	m2	90.00		
	10. psychology classroom	m2	9.36		
	11. library	m2	7.00		
	13. Headteacher's office	m2	21.20		
	15. corridor in front of Headteacher's office	m2	12.00		
	16. teacher's lounge	m2	33.00		
	17. caretaker's apartment	m2	52.50		
				TOTAL:	

II MASONRY				
3.1.	Material supply and transport and plastering of stripped off walls with flexible mortar, ratio 1:3:9, in two layers. Prior to plastering, the surfaces shall be sprayed with cement slurry, ratio 1:1. Plastered surfaces must be flat, without curbs and waves, with sharp and straight edges. Mortar shall be wetted to prevent rapid drying and dusting. Calculation per m2 of plastered surface.			
	1. lobby	m2	68.00	
	2. physics classroom	m2	97.00	
	3. accounting and kitchen	m2	94.00	
	4. Student Parliament	m2	80.00	
	5. reading room	m2	3.00	
	7. classroom 1, classroom 2 and biology classroom	m2	90.00	
	8. chemistry classroom	m2	1.90	
	10. psychology classroom	m2	9.36	
	11. library	m2	7.00	
	13. Headteacher's office	m2	21.20	
	15. corridor in front of Headteacher's office	m2	12.00	
	16. teacher's lounge	m2	33.00	
	17. caretaker's apartment	m2	52.50	
3.2.	Material supply and transport, and masonry of walls by YTONG blocks, 12 cm thick. The price includes plastering of YTONG walls by thin mortar. Calculation per m2.			
	1. lobby, below stairs	m2	13.70	
	2. physics classroom	m2	5.20	
	9. chemistry classroom laboratory	m2	17.00	
				TOTAL:

III PAINTING				
3.1.	Material supply and transport, and troweling of fine plastered walls with dispersive putty. Surfaces shall be ground, cleaned and neutralized. Troweling shall be made in two layers. The walls shall be thoroughly ground. Calculation per m2.			
	1. lobby	m2	68.00	
	2. physics classroom	m2	97.00	
	3. accounting and kitchen	m2	94.00	
	4. Student Parliament	m2	80.00	
	5. reading room	m2	3.00	
	7. classroom 1, classroom 2 and biology classroom	m2	90.00	
	8. chemistry classroom	m2	1.90	
	10. psychology classroom	m2	9.36	
	11. library	m2	7.00	
	13. Headteacher's office	m2	21.20	
	15. corridor in front of Headteacher's office	m2	12.00	
	16. teacher's lounge	m2	33.00	
	17. caretaker's apartment	m2	52.50	

3.2.	Material supply and transport, and painting of walls and ceilings by semi-dispersion paint. The walls shall be painted in two layers semi-dispersion paint with the shade selected by the Investor. Calculation per m2 of painted surface.				
	1. lobby	m2	235.00		
	2. physics classroom	m2	268.00		
	3. accounting and kitchen	m2	231.00		
	4. Student Parliament	m2	274.00		
	5. reading room	m2	188.00		
	6. corridor and toilets towards classrooms	m2	180.00		
	7. classroom 1, classroom 2 and biology classroom	m2	338.00		
	8. chemistry classroom	m2	126.00		
	9. chemistry classroom laboratory	m2	64.00		
	10. psychology classroom	m2	42.00		
	11. library	m2	20.00		
	12. Toilets in corridors towards classrooms	m2	35.00		
	13. Headteacher's office	m2	55.00		
	14. Secretary's office	m2	73.00		
	15. corridor in front of Headteacher's and Secretary's office	m2	50.50		
	16. teacher's lounge	m2	124.00		
	17. caretaker's apartment	m2	142.00		
3.3.	Material supply and transport, and making of decorative surfaces "faux finish" on the walls, in the shade and texture as specified by the Investor. The walls shall be cleaned, washed and covered with putty, i.e. prepared according to the manufacturer's instructions. Calculation per m2.				
	1. lobby	m2	162.40		
	5. reading room from external side	m2	7.60		
	7. classroom 1, classroom 2 and biology classroom	m2	129.00		
	13. Headteacher's office	m2	17.00		
	14. Secretary's office	m2	17.00		
	15. corridor in front of Headteacher's and Secretary's office	m2	12.00		
	16. teacher's lounge	m2	92.00		
3.4.	Material supply and transport, and finish of jambs after windows and doors are installed. Jambs shall be finished with construction adhesive and trowelling plaster in two layers. Finish surfaces must be smooth and without curbs and waves, with sharp and straight edges. Calculation per meter.	m	46.00		
3.5.	Material supply and transport, and fabrication of mask for expansion joint on the wall and ceiling in the corridor towards classrooms. Expansion joint shall be covered by hard styrofoam, thickness 2 cm, width 90 cm. Styrofoam shall be covered with PVC mesh for joint bandaging and with glue, then troweled and painted with semi-dispersion paint. Calculation per meter.	m	6.50		
				TOTAL:	

IV TILING WORKS

4.1.	Material supply and transport, and installation of floor non-slip ceramic tiles, 1 class, approx. dimensions 33x33 cm, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in colour chosen by the Investor. Calculation per m2.				
	2. physics classroom	m2	44.50		
	3. accounting and kitchen	m2	16.40		

4.2.	Material supply and transport, and installation of wall tiles, I class, approx. dimensions 33x33 cm, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in color as selected by the Investor. Calculation per m2				
	8. chemistry classroom	m2	44.00		
	3. accounting and kitchen	m2	20.00		
4.3.	Material supply and transport, and installation of floor tiles, non-slip granite, I class, approx. dimensions 33x33 cm, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in color as selected by the Investor. Calculation per m2.				
	1. lobby	m2	252.00		
4.4.	Material supply and transport, and installation of tiles, non-slip granite, I class, described in previous item, on the vertical surface of delevelling between two floor surfaces in the lobby, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in color as selected by the Investor. Calculation per m2.				
	1. lobby	m2	6.20		
4.5.	Material supply and transport, and installation of tiles on stairs, non-slip granite, I class, approx. dimensions 33x33 cm, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in color as selected by the Investor. Calculation per m2.				
	1. lobby	m	30.00		
4.6.	Material supply and transport, and installation of plinth made of floor tiles, I class, height up to 10cm, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in color as selected by the Investor. Calculation per meter.				
	2. physics classroom	m	39.00		
	3. accounting and kitchen	m	31.00		
4.7.	Material supply and transport, and installation of plinth made of non-slip granite tiles, height up to 10cm, on the layer of adhesive and joint pointing with FUGOMAL, butt joint, in color as selected by the Investor. Calculation per meter.				
	1. lobby	m	58.00		
4.8.	Material supply and transport, and installation of corner aluminium strips on stairs edges and thresholds.				
	1. lobby	m	58.00		
	door threshold	m	17.00		
				TOTAL:	

V REPAIR OF CAST POLYURETHANE FLOORING

5.1.	Material supply and transport, and repair of existing cast floors. Damaged surfaces, holes and cracks shall be filled with epoxy mortar, then flooring shall be ground, and existing flooring shall be coated with epoxy coating type UNICOAT or equivalent, in accordance with the manufacturer's instructions and regulations for this type of work. Calculation per m2 of existing floors, damaged floors approximately 15% of the presented surfaces				
	5. reading room	m2	31.00		

	6. corridor and toilets towards classrooms	m2	58.30		
	7. classroom 1, classroom 2 and biology classroom	m2	169.30		
	13. Headteacher's office	m2	19.80		
				TOTAL:	

VI LAMINATE FLOORING					
6.1.	Material supply and transport, and installation of laminate flooring, with aluminum sealant (class 31, d=8.2 mm, for medium load), in shade and texture chosen by the Investor. Laminate flooring is placed as a floating floor. Laminate must be strong, durable and high pressed, while plate carrier is of high density, HDF, impregnated edges with aluminum carrier for tongue and groove closing. The prepared base shall be covered by felt and foil. Next to walls there shall be expansion joints, 10 mm wide. Flooring shall be carefully placed and "click" assembled. Next to walls there shall be skirtings, fixed to the wall at every 80 cm. Butting shall be bevelled. Calculation per m2 of placed flooring.				
	17. caretaker's apartment	m2	33.00		
				TOTAL:	

VII JOINERY WORKS					
7.1.	Fabrication, transport and installation of glazed interior doors - portal of Al sections, insulated glazing 4+12+4 mm. Door structure is made of anodized aluminum sections with a multi-chamber system. Sealing by EPDM sections, with installation of hardware. The price includes finish of jambs after portals are mounted. Calculation per piece.				
	dim. 192/365 - Portal 1 - corridor towards classrooms - corridor in front of Headteacher's office	pcs	2.00		
	dim. 190/345 - Portal 2 - library	pcs	1.00		
	dim. 266/223 - Portal 3 - physics classroom	pcs	1.00		
7.2.	Fabrication, transport and installation of internal double, partially glazed doors, made of five-chamber hard PVC section, reinforced by stainless steel sections, filling and sealing system by EPDM rubber, with hardware, locks and three hinges, in white. Panel filled with highly resistant PVC. Parts of the door leaves shall be glazed by transparent float glass, thickness 6 mm. The price includes finish of jambs after doors are mounted. Calculation per piece.				
	dim. 176/223 - Portal 4 physics classroom, beneath stairs	pcs	1.00		

7.3.	Fabrication, transport and installation of internal single, partially glazed doors, made of five-chamber hard PVC section, reinforced by stainless steel sections, filling and sealing system by EPDM rubber, with hardware, locks and three hinges, in white. Panel filled with highly resistant PVC. Parts of the door leaf shall be glazed by transparent float glass, thickness 6 mm. The price includes finish of jambs after doors are mounted. Calculation per piece.				
	dim. 100/200 - V1 physics classroom	pcs	1.00		
7.4.	Fabrication, transport and installation of internal single doors, made of five-chamber hard PVC section, reinforced by stainless steel sections, filling and sealing system by EPDM rubber, with hardware, locks and three hinges, in white. The price includes finish of jambs after doors are mounted. Calculation per piece.				
	dim. 100/200 - V2 physics classroom 2 pcs; caretaker's apartment 1 pcs.	pcs	3.00		
	dim. 90/200 - V3 - accounting and kitchen - 3 pcs - chemistry classroom laboratory - 1 pcs - library - 1 pcs	pcs	5.00		
	dim. 70/200 - V4 - toilet in accounting - 2 pcs lobby beneath stairs - 1 pcs physics classroom - 1 pcs - toilet in corridor towards classrooms - 5 pcs - toilet in caretaker's apartment - 1 pcs	pcs	10.00		
	dim. 60/187 - V5 - corridor in front of Headteacher's office	pcs	2.00		
	dim. 67/158 - V6 physics classroom, workshop	pcs	1.00		
	dim. 86/158 - V7 - physics classroom, workshop	pcs	1.00		
	dim. 80/200 - V8 - caretaker's apartment	pcs	3.00		
7.5.	Fabrication, transport and installation of glazed roof lights made of hard five-chamber PVC sections, reinforced by stainless steel sections, filling and sealing system by EPDM rubber. Glazing by transparent float glass, thickness 6 mm. The price includes finish of jambs after roof lights are mounted. Calculation per piece.				
	dim. 260/50 - N1 accounting and kitchen	pcs	1.00		
	dim. 183/68 - N2 accounting and kitchen	pcs	1.00		
	dim. 80/60 - N3 accounting and kitchen	pcs	1.00		

7.6.	Fabrication, transport and installation of windows made of highly resistant, hard, five-chamber PVC sections, reinforced with stainless steel sections, filling and sealing system by EPDM rubber, insulated glazing 4+12+4 mm. The price includes finish of jambs after installation of windows, and installation of external windowsills made of powder-coated steel sheet and internal windowsills of highly resistant, hard PVC. Calculation per piece.				
	dim. 380/170 - P1 - caretaker's apartment, room	pcs	1.00		
	dim. 190/170 - P2 caretaker's apartment, kitchen - 1 pcs P3 - caretaker's apartment, bathroom 1 pcs	pcs	2.00		
	dim. 300/170 - P4 - caretaker's apartment - room	pcs	1.00		
	dim. 147/170 - P5 - caretaker's apartment - dining room	pcs	1.00		
TOTAL:					

VIII SANITARY WARE					
8.1.	Careful disassembly of wash basins and taps. Carefully disassembly, transport to the landfill or place specified by the Investor up to 10km. Calculation per piece.				
	4. Student Parliament	pcs	1.00		
8.2.	Supply, transport and installation of a set of ceramic wash basin, 60x40 cm, domestic manufacturer, I class. Wash basin shall be fixed to the wall by adequate plugs and brass screws, over washers with rubber. Wash basin shall be connected to drain by chrome trap, diameter 5/4", with a rosette, plug and chain. Installation of hot and cold water tap. Beside wash basin, installation of shelf, soap and towel holder. The price includes taps and valves, as well as possible replacement of damaged water supply and sewage pipes. Calculation per piece of wash basin, the entire set.				
	4. Student Parliament	pcs	1.00		
	3. accounting and kitchen	pcs	1.00		
8.3.	Supply, transport and installation of ceramic combined handwasher, with hot and cold water tap. Combined handwasher shall be connected to sewerage system with WC pan connectors and adequate putty, in order to achieve 100% sealing. Combined handwasher shall be installed over rubber pads and fastened with brass screws. WC cistern shall be placed and wall-mounted tap for cold and hot water, as well as valves. Protective grille shall be installed. Calculation per piece, the entire set				
	3. accounting and kitchen - in toilet	pcs	1.00		
TOTAL IN DINARS:					

GRAND SUMMARY		
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I	ASSEMBLING-DISASSEMBLING WORKS AND DEMOLITION	
II	MASONRY	
III	PAINTING	
IV	TILING WORKS	
V	CAST POLYURETHANE FLOORING	
VI	LAMINATE FLOORING	
VII	JOINERY WORKS	
VIII	SANITARY WARE	
		TOTAL: