	PRICED BILL OF QUANTITIES **HEALTH CENTRE IN NOVI PAZAR**						
	Works on regular maintenance of existing worn out water insulation of the flat roof, **previously making thermal insulation** of flat roof surfaces using Styrofoam						
A	**PREPARATORY WORKS:**	**Unit**	**Quantities**		**Unit price**		**Total**
1	Forming the building site, transport of necessary tools and materials.	lump sum					0.00
2	Preparatory works to be done before the insulation works, consisting of:						
2.1	Cleaning the existing base of the roof **plane no. 1** consisting of removing moss off the surface of concrete blocks and debris on it.	m2	450.00				0.00
2.2	Arrange, cut and fix existing concrete blocks, removed along the edges, near horizontal gutters in cement mortar. In order to reduce the difference in height level of concrete blocks and A.B horizontal gutters, the blocks need to be cut 30cm from the gutter edge and make coves using cement mortar, 6cm thick on average, 30cm wide. **(Detail C)**. The price shall include all described in this item.	m1	50.00				0.00
2.3	Cut existing blisters in the bitumen water insulation, which have appeared on the non-walkable roof parts. Take 10% of total surface of non-walkable roofs.	m2	250.00				0.00
2.4	Cut existing metal pipes of the roof plane 1, profiles 30x40mm by cca 15cm on the bottom, on the part of the roof where there are no horizontal gutters, in order to make the coves after installing Styrofoam, using PVC membrane, h=30cm. After cutting, the pillars shall be connected to the existing A.B. wall by drilling in and welding the anchors.	pcs	27.00				0.00
2.5	Provision of the material and repairing the layer for the slope of the damaged horizontal gutter using cement mortar, d=4cm thick on average, 80cm wide, 750cm long, on the roof plane 1.	m1	7.50				0.00
2.6	Provision of the material and making covers of plastic coated sheet metal on a substructure of wooden scantlings 5x5cm (frame dim. A.B. cover) and install OSB cover, d=11mm with drip tray. The covers shall be inclined on one side at 5% slope. The wooden substructure shall be coated over with Sadolin in two layers. All paid per piece.						

	block dimensions 60x60cm	pcs	8.00				0.00
	block dimensions 70x70cm	pcs	3.00				0.00
2.7	Provision of the material and finishing damaged A.B exterior surfaces of vent covers on roof plane 1, using cement mortar, previously spraying cement grout over the surfaces.	m2	4.00				0.00
2.8	Provision of the material and making the filling layer using lean cement mortar, d=5cm thick on average over concrete blocks that are bent in the middle of the roof plane no. 1, including making slopes. Estimated size of repaired surface shall be 50m2.	m2	50.00				0.00
2.9	Partially even out local bends using sand, d=3cm thick on average, including corrections of the slopes toward gutters. Expected quantity of evening out is given cumulatively for all roof planes.	m2	264.00				0.00
2.10	Paint existing metal railing of the roof plane no.1, including previous cleaning of surfaces. Vertical pillars shall be made of boxes 30x40mm, 1m apart and handrails made of steel sheet metal, dim. 200x40mm. The coating shall include base and finishing metal paint in two layers each. All together paid by m1 of railing.	m1	81.00				0.00
2.11	Provision of the material and making new outlets with covers made of galvanized sheet metal, d=0.6mm (joints shall be done by soldering), dim. 13x13cm, length L=25cm (measures for new outlets with covers must be taken on the spot). This element shall be introduced in the vertical gutters over which PVC membrane shall be folded to the depth of 10cm, and this joint shall be finished using PMMA-based resin (polymethil methacrylate – “triflex” or other material with similar characteristics) All together shall be caclulated by piece of installed and finished outlet.	pcs	21.00				0.00
2.12	Provision of the material and making fittings in the places where spouts are sunk after the level is raised because of installing Styrofoam. Fittings shall be made using galvanized sheet metal, d=0.6mm (joints shall be done by soldering), in which PVC membranes shall be folded 10cm deep, by way of welding. The joint of the PVC membrane and new fittings shall be coated using PMMA-based resin (polymethil methacrylate resin) in order to prevent water overflowing around the spout. All together shall be calculated by piece of installed and finished outlet.	pcs	11.00				0.00

2.13	Provision of the material and coating vent covers and drip trays on roof no. 7, made of galvanized sheet metal, including previously cleaning and degreasing the surfaces. Coating shall be done using foundation base paint in two layers and finishing oil metal paint for exteriors, in two layers.	m2	39.00				0.00
2.14	Provision of material and installation of vent covers made of galvanized sheet metal Ø100 on places where covers are missing or they are damaged, entirely in accordance with existing covers. The price shall also include dismounting existing covers.	pcs	13.00				0.00
2.15	Provision of the material and coating existing vent covers made of galvanized sheet metal using two layers of paint, including previous cleaning and degreasing of surfaces.	pcs	26.00				0.00
2.16	Provision of the material - PVC pipes Ø70, 30cm long, in order to extend ventilations, including the necessary repacking of elements. All together calculated per piece of extended ventilation.	pcs	10.00				0.00
2.17	Provision of the material and installing gutter verticals made of galvanized sheet metal, d=0.6mm, dim. 14x14cm, to replace bent and damaged gutters, including fastening them to the main structure using brackets. The price shall also include making a collector and end spout as well as dismounting existing gutters. Calculated per m1 of installed gutter element.	m1	8.00				0.00
2.18	Work on repairing, fixing and adjusting the gutter verticals.	lump sum					0.00
2.19	Provision of the material and installing new plastic coated sheet metal d=0.55mm, instead of existing galvanized roof sheet, with slope and all other elements as the existing sheet (include all the necessary flashing). The width of elements and overlapping them by swaging shall be adjusted in accordance with the existing situation. Calculation per m2 of installed sheet metal. Install within the roof no 7 (19m2) and roof POZ 2 (6.0 m2)	m2	25.00				0.00
3	Remove debris from the roof and take down to the yard, load onto the vehicle and take it to the town landfill.	m3	10.00				0.00
					A.PREPARATORY WORKS:		**0.00**
B	**CONSTRUCTION WORKS:**						

1	Provision of the material and laying boards of hard-pressed Styrofoam, d=15cm, over prepared and evened out existing base, as well as thermal insulation of roof blocks. The Styrofoam, d=15cm, shall have the following characteristics: heat conductivity coefficient 0.035W/Mk, volumetric mass min. 22kg/m3 and compressive strength min. 133kPa. the price shall include any incisions of the Styrofoam around vents, spouts, outlets and coves. Calculation per m2	m2	2,448.00				0.00
2	Make water insulation of flat roof surfaces in accordance with the following descriptions: * Over the layer of geotextile 500gr/m2 (felt) install PVC membrane, 1.5mm thick, which shall be multi-layered, synthetic and moisture-permeable, reinforced with polyester felt. PVC membrane must be weather resistant, including permanent exposure to UV radiation. The PVC membrane system shall be laid freely, mechanically fastened with laps welded using hot air, all in line with the Technical Report and manufacturer's instructions.						
	* Finishing along the edges of the building shall be done using the aluminium L strips, entirely using the technology of the manufacturer.						
	*On roof parts (roofs no. 5, 6 and 7) with low edge walls and where coves will be under 30cm, PVC membrane mechanically fix to the wall in places, then connect/finish the existing drip tray and membrane using PMMA-based resin (polymethil methacrylate). Finishing with PMMA-based resin should be included in the offered price.						
	*Coves around existing vents shall be made using PVC membrane mechanically fixed to the wall in places, and finished using PMMA-based resin (polymethil methacrylate). The surface of the vents shall not be deducted and coves and their finishing not separately calculated.	m2	2,874.00				0.00
3	Provision of the material and coating ventilation pipe projections Ø100 and Ø70 using PMMA-based resins (polymethil methacrylate), a min. of 40cm high. Calculated per piece of finished ventilation pipe.	pcs	49.00				0.00

4	Provision of the material and finishing drip tray joints on the roof 1 dilatation, where after laying Styrofoam, roof and PVC membrane levels shall be almost equal with the dilatation sheet metal, left by the roof exit, using PMMA (polymethil methacrylate) based resin, R.Š. 30cm. All together calculated per m1 of coated sheet metal.	m1	11.00				0.00
					B. CONSTRUCTION WORKS:		**0.00**
	SUMMARY						
A	PREPARATORY WORKS:						**0.00**
B	CONSTRUCTION WORKS:						**0.00**
					TOTAL		**0.00**