

NARUČILAC / CLIENT: AMBASADA BOSNE I HERCEGOVINE U BEČU
EMBASSY OF BOSNIA AND HERZEGOVINA IN VIENNA,
Tivoligasse 54, A-1120 Vienna

OBJEKAT / BUILDING: ZGRADA AMBASADE BIH U BEČU
EMBASSY BUILDING OF BIH IN VIENNA
„TERRAMARRE SCHLÖSSL“, Heuberggasse 10, 1170 Vienna

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BR. PROJEKTA: AGP 10-07/22, 49-GP/22



**GLAVNI PROJEKT REKONSTRUKCIJE I ADAPTACIJE
OBJEKTA AMBASADE BOSNE I HERCEGOVINE U BEČU
MAIN DESIGN FOR RECONSTRUCTION AND ADAPTATION OF
EMBASSY BUILDING OF BIH IN VIENNA**

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/ PREDMJER I PREDRAČUN RADOVA – PRICED BoQ /

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EUROING d.o.o. Bihać

URBING d.o.o. Sarajevo

Sarajevo, oktobar 2022.

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| KNJIGA – BOOK | B8.1 |

PREDMJER I PREDRAČUN RADOVA / PRICED BOQ

ARHITEKTURA / ARCHITECTURE

BR./NR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1.								
PREPAREMI RADOVI / PREPARATORY WORKS								
	BH		Priprema gradilišta, postavljanje ograde gradilišta i parova sa informacijama, deinstaliranje pozicije gradilišnih deponija materijala i otpada, pozicije gradilišnog WC i uprave gradilišta, kao i nabavka svih potrebnih stvari potrebnih prema lokalnoj regulativi.					
			Obradun paušalno.		paušal/ approx.		1,00	
1.1	ENG		Construction site preparation, setting up of site fence and panel with the project information, defining the position of the site construction material and construction waste places as well as defining the place for site toilets and a place for the site management container. To be included are also all other needed elements, all according to the local regulation.					
			Approximate pricing.					
	BH		Nabavka, transport i postavljanje montirane cijeme samostojeće fasade skele za potkrovlje radova restauracije fasade. U cijenu pozicije urađunati i potrebni završni i odgovarajuća oznaka.		m2		1.210,00	€
1.2	ENG		Procurement, transportation and installation of the freestanding facade scaffolding needed for the facade restoration works. In the price are to be included the necessary safety measures, equipment and signs.					
			Cost per square meter.					
	BH		Nabavka, transport i postavljanje unutarnjih mobilnih platformislike za radove na unutarnjim stropovima i zidovima.		paušal/ approx.		1,00	€
1.3	ENG		Procurement, transportation, and installation of internal mobile scaffolding needed for internal plaster restoration works for the internal walls and ceilings.					€
			Approximate pricing.					
UKUPNO / TOTAL								
€ 1								
2. DEMONTAŽE I RIJEŠENJA - UNUTRA / DISMANTLING AND DEMOLITION WORKS - INSIDE								
2.1	BH		Pazljivo demontirati i usušnje unutarnjih pregradnih zidova prema pozicijsima definiranim u grafičkim nacrtima. Pregradni zidovi debljine do 19 cm, sastava od gips-kartonskih ploča ili opečnih cigli. Sav otpadni i neupotrebljiv materijal transportovati na deponiju.		m2		118,00	
			Obradun po m2.					
	ENG		Careful dismantling and demolition of internal non-load bearing partition walls as per the architectural drawings. Thickness of the partition walls is up to 19 cm, made from plasterboards or bricks. All waste and unusable material is to be transported to the dump.					
			Cost per cubic meter.					
2.2	BH		Pazljivo usušnje dijela vanjskih zidova i probijanje otvora prema grafičkim nacrtima. Otvori su zazidani u ranijim restauracijskim objektima. Prilikom probijanja otvora izvršiti sva neophodna osiguranja postojeće strukture zidova na kojim se izvode radovi probijanja otvora. Sav otpadni i neupotrebljiv materijal transportovati na deponiju.		m3		6,00	
			Obradun po m3.					
	ENG		Careful demolition of parts of external walls by forming opening in the walls as per the architectural drawings. The opening to be made were closed off in the earlier renovations of the building. Before and during the demolition works make all necessary securing of the existing wall structure that is to remain. All waste and unusable material is to be transported to the dump.					
			Cost per cubic meter.					
2.3	BH		Pazljivo usušnje dijelova unutarnjih postojeh zidanih zidova debljine 30-45 cm za potkrovlje formiranja novih otvora u postojećim zidovima. Prilikom probijanja novih otvora izvršiti sva neophodna osiguranja postojeće strukture zidova na kojim se izvode radovi probijanja otvora. Sav otpadni i neupotrebljiv materijal transportovati na deponiju.		m3		5,50	€
			Obradun po m3.					
	ENG		Careful demolition of internal existing walls with the thickness 30 cm to 45 cm, for creating the new openings for doors. Before and during the demolition works make all necessary securing of the existing wall structure that is to remain. All waste and unusable material is to be transported to the dump.					
			Cost per cubic meter.					
2.4	BH		Demontirati i usušnje svih podnih obloga i sljevera podova prema pozicijsima definiranim u grafičkim nacrtima. U sklopu pozicije obuhvatiti drvene, keramičke i sve ostale podne obloge kao i demontirati svih unutarnjih zidnih obloga od keramičke u prostorijama poput sanitarja i kuhinja. Sav otpadni i neupotrebljiv materijal transportovati na deponiju i/ili reciklažu.		m2		570,00	
			Obradun po m2.					
	ENG		Dismantling and demolition of all floor coverings with all subfloor layers as per the architectural drawings. In the works are to be included wooden flooring, ceramic flooring as well as any ceramic coverings of internal walls like the covering in the kitchen or toilets. All waste and unusable material is to be transported to the dump and/or recycling.					
			Cost per square meter.					

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2.5	ENG		Demontaža svih unutarnjih stolarskih elemenata i drugih drvenih obloga unutarnjih zidova. U poziciju uključuju sve zidne obloge, stropce i podne lagre te ostale drvene elemente koji se ne zadržavaju ni restauriraju. Sav otpadni i neupotrebljiv materijal transportovati na deponiju ili rećkazu. Otvoriti paušalno. Dismantling of all internal wooden elements as well as any other wooden wall coverings. In the works are to be included all internal wall coverings, floor and ceiling cornices as well as any other coverings or elements that are not marked as to be restored. All waste and unusable material is to be transported to the dump and/or recycled. Approximate pricing.		paušal / approx.	1,00		0
2.6	BHH		Demontaža svih pozicija unutarnjih vrata od drveta koja su označena za potpuno uklanjanje ili završenu prema graficim nacrtima sa svim pripadajućim elementima štokova, kila i lajsni. Sav otpadni i neupotrebljiv materijal transportovati na deponiju ili rećkazu. Otvoriti po komadu.		komad / piece	25,00	€	
	ENG		Dismantling of all internal wooden doors with all accompanying parts that are marked for total removal or replacement as per the architectural drawings. All waste and unusable material is to be transported to the dump and/or recycled. Cost per unit.					
2.7	BHH		Demontaža svih drvenih pregradnih zidova na etazi potkrovlja. Sav otpadni i neupotrebljiv materijal transportovati na deponiju ili rećkazu. Prosječna visina pregrada h=200cm. Otvoriti po m ² .		m ²	104,00		
	ENG		Dismantling of all wooden partition walls on the attic. All waste and unusable material is to be transported to the dump and/or recycled. Average height of walls h=200cm. Cost per m ² .					
2.8	BHH		Demontaža i uklanjanje svih postojehi elektronskostiacija iz unutarnjih objekata zajedno sa kablom, kablovima, predlozima, utičnicama i svim ostalim elementima. Sav otpadni i neupotrebljiv materijal transportovati na deponiju ili rećkazu. Otvoriti paušalno.		paušal / approx.	1,00		
	ENG		Dismantling and removal of all existing electrical cabling from the building together with all accompanying parts. All waste and unusable material is to be transported to the waste and/or recycling. Approximate pricing.					
2.9	BHH		Demontaža svih elemenata grijanja, razvoda grijanja kao i mehanizacije grijanja te deponovanje na gradilištu. Sav otpadni i neupotrebljiv materijal transportovati na deponiju ili rećkazu. Otvoriti paušalno.		paušal / approx.	1,00	€	
	ENG		Dismantling of all internal mechanical piping and all accompanying parts and along the dismantled elements on site. All waste and unusable materials are to be transported to the dump and/or recycling. Approximate pricing.					
			UKUPNO / TOTAL				€	
3.			DEMONTAŽE I RUKOVANJE / DISMANTLING AND DEMOLITION WORKS - OUTSIDE					
3.1	BHH		Demontaža svih antena, kablova i ostalih instalacionih elemenata prisluh na krovu i fasadi objekata sa svim pripadajućim kablom i razvodom. Sav otpadni i neupotrebljiv materijal transportovati na deponiju ili rećkazu. Otvoriti paušalno.		paušal / approx.	1,00		
	ENG		Dismantling and removal of and satellite dishes, cabling and all other existing electrical elements from the roof and facade of the building with all accompanying parts. All waste and unusable material is to be transported to the dump and/or recycling. Approximate pricing.					
3.2	BHH		Pažljivo rušenje postojeće betonske ploče debljine cca. 8cm na terasi ulaznog stepeništa južna fasade objekta. Ploča je namrštno izvedena na kol poziciji i lasko je deformisana i oštećena. Sav otpadni i neupotrebljiv materijal transportovati na deponiju. Otvoriti po m ² .		m ²	4,80	€	
	ENG		Careful demolition of existing concrete slab on the terrace of the entry stairs on the south building facade that was added on that place, and is currently heavily deformed. All waste and unusable material is to be transported to the dump and/or recycling. Cost per square meter.					
3.3	BHH		Rušenje potpunoj betonskog zida sa pripadajućim temeljima potpunoj zida ispred zapadne fasade objekta koji je pod utjecajem zemlje poklo da se napagne prema objektu. Sav otpadni i neupotrebljiv materijal transportovati na deponiju. Otvoriti po m ³ .		m ³	14,00		
	ENG		Demolition of the retaining concrete wall with all accompanying foundations located in front of the west building facade. The wall is deformed and is leaning towards the building. All waste and unusable material is to be transported to the dump. Cost per cubic meter.					

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
3.4	BHH		Rušenje postojećih betonskih staza oko objekta kao popločanja ispred istočne i sjeverne fasade. Sav otpadni i neupotrebljivi materijal transportovati na deponiju. Obradun po m ³ .		m ³	31.00		
	ENG		Demolition of all existing concrete paths around the building perimeter as well as any external site lining in front of the east and north facade. All waste and unusable material is to be transported to the dump. Cost per cubic meter.					
3.5	BHH		Demonizacija obojzih demontirane malog bazena ispred sjeverne fasade objekta. Sav otpadni i neupotrebljivi materijal transportovati na deponiju. Obradun po m ² .		m ²	11.00		
	ENG		Dismantling of all covering materials on the small pool in front the north facade. All waste and unusable material to be transported to the dump. Cost per square meter.					
3.6	BHH	a.	Pazljivo demontirati svih inernih ograde na fasadnim rješenjima, ogradama balkona i terasa, zadržim zidovima, dimnjacima, krovni rješenjima i vratima, svjetlima te evidentiranje pozicija i dimenzija bin demontiranih i deponovanje materijala na gradilišnu deponiju. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili reciklažu. Obradun po m ¹ .		m ¹	63.00		
		b.	Vijerci		m ¹	23.00		
		c.	Ograda balkona i terase		m ¹	33.00		
		d.	Zadržni zidovi		m ¹	18.00		
		e.	Dimnjaci		m ¹	100.00		
		f.	Krovni rješenja i uvale		m ¹	21.00		
		g.	Krov svjetlanika					
		h.	Caridni demontiranje of all metal sheets fascia, window metal stool coverings, balcony and terrace metal cover, wall metal sheets cover, chimney coverings, roof metal sheeting, etc. All positions of the dismantled parts are to be properly marked and temporary storage on site. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m ¹ .					
		i.	cornices					
		j.	balcony and terrace balustrade					
		k.	gable walls					
		l.	chimneys					
		m.	roof ridges and covers					
		n.	skylight roof					
3.7	BHH		Pazljivo demontirati svih horizontalnih i vertikalnih oloka, evidentiranje pozicija te deponovanje na gradilišnu deponiju. Evidentirati poziciju dekorativnih nosača horizontalnih oloka na krovovima za ponovnu upgradnju nakon sanacije te iste sačuvati. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili reciklažu. Obradun po m ¹ .		m ¹	124.00		
	ENG		Careful dismantling of all horizontal gutters and vertical downpipes, marking of their position and temporary storage on site. All decorative supporting pieces that are to be repaired or restored are to be saved and prepared for their subsequent return to the original position. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m ¹ .					
3.8	BHH		Demonizacija metalnih i ostakljenih elemenata sa vratima ispod balkona na istočnoj fasadi objekta. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili reciklažu. Obradun po m ¹ .		m ¹	10.00		
	ENG		Dismantling of all metal and glass elements with the door leaf below the balcony on the east building facade. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m ¹ .					
3.9	BHH		Demonizacija metalne ulazne kapije za vozila na južnoj granici parcele te deponovanje na gradilišnu deponiju. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili reciklažu. Obradun po komadu.		komad / piece	1.00		
	ENG		Dismantling of the metal entry vehicle gate on the south site border and its temporary storage on the site. All waste and unusable material is to be transported to the dump and/or recycling. Cost per unit.					
3.10	BHH		Demonizacija svih drvenih daski sa metalne ograde na zapadnoj granici parcele te deponovanje na gradilišnu deponiju. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili reciklažu. Obradun po m ¹ .		m ¹	64.00		
	ENG		Dismantling of all wooden boards from the metal fence on the west site border and temporary storage of the material on site. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m ¹ .					

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
			Demonizacija metalnih ograda sa betonskih zidova duž južne i zapadne granice parcele, evidentiranje pozicije i stanja očuvanosti, deponovanje na gradilište te priprema za radove sanacije i ponovne ugradnje.					
	BIH		Otvradu po m ¹ .					
3.11	ENG		Dismantling of the metal fence located on the concrete border walls running along the west site edge, marking of the position and state of disrepair, temporary storage of the elements on the site and preparation for the subsequent return of the repaired elements to their original place. Cost per m ¹ .		m ¹		175.00	
			UKUPNO / TOTAL					€
4			ZEMLJANI RADOVII / EARTH WORKS					
	BIH		Izvršiti ručne i mašinske radove iskopavanja površinskih slojeva zemlje na pozicijama prema grafičkim nacrtima, za izradu novog popločavanja i staza oko objekta te izradu novog potpornog zida ispred zapadne fasade objekta. Deponovati materijal na gradilištu deponiju. Sav otpadni i nepotrebni materijal transportovati na deponiju. Otvradu po m ³ .					
4.1	ENG		Perform the manual and machined works on the removal of earth layers on site places as defined by the architectural drawing in preparation for the placement of the new paths and concrete the pavements as well as the needed earth works around the retaining wall located in front the west facade of the building. Save part of the material on the site for later use. All waste and unusable material is to be transported to the dump. Cost per cubic meter.		m ³		500.00	€
	BIH		Nabavka materijala, transport i ugradnja tamponskog sloja šljunka ispod novih betonskih podložnih ploča oko objekta, stepeništa i rampa. Debljina tamponskog sloja u zbijenom stanju je 20cm. Izvršiti zbijanje do zadržavanje zbijenosti materijala upotrebom mehaniziranih uređaja za zbijanje materijala. Otvradu po m ² ugrađene i zbjene količine.		m ²		640.00	
4.2	ENG		Procurement of material, transportation and placement of a layer of gravel below the new concrete slabs around the building for the new pavement. Thickness of the gravel layer is 20 cm after the necessary compression works. The material is to be compressed to the needed compression amount with the use of the compression devices. Cost per m ² of installed and compacted quantity.					
	BIH		Nabavka, transport i ugradnja humusnog zemljanog materijala za postavljanje na pozicije mono-formiranih vrtna i cipelećnjaka, sve prema grafičkim prilozima vanjskog uređenja. Otvradu po m ³ .		m ³		25.00	
4.3	ENG		Procurement of earth material for placement in the new garden beds, all according to the architectural drawings of the landscaping. Cost per cubic meter.					
			UKUPNO / TOTAL					€
5			BETONSKI RADOVII / CONCRETE WORKS					
	BIH		Nabavka materijala, transport i izrada novog betonskog potpornog zida ispred zapadne fasade prema grafičkim prilozima. Armiranje zida izvršiti prema planu armiranja iz projekta konstrukcije. Sve dimenzije uzeti i vertikalni na licu mjesta. U cijenu uračunati sve potrebne materijale i radove. Otvradu po m ³ .		m ³		17.00	
5.1	ENG		Procurement of material, transportation and making of new concrete retaining wall in front of the west building facade, all according to the architectural drawings. Steel reinforcement of the wall to be done according to the structural drawings and descriptions. All measures to be confirmed and taken on site. All necessary material and works to be included in the price. Cost per cubic meter.					
	BIH		Nabavka materijala, transport i izrada nove lako-armirane betonske ploče na terasi stepeništa ispred južne fasade objekta debljine 4-5cm. Armiranje prema opisu iz projekta konstrukcije. Sve dimenzije uzeti i vertikalni na licu mjesta. U cijenu uračunati sve potrebne materijale i radove. Otvradu po m ³ .		m ³		2.00	€
5.2	ENG		Procurement of material, transportation and making of new lightly reinforced concrete slabs on top of the terraces in front of the south building facade, thickness 4-5cm. Reinforcement according to the description from the structural project. All measures to be confirmed and taken on site. All necessary material and works to be included in the price. Cost per cubic meter.					
	BIH		Nabavka materijala, transport i izrada novih lako armiranih betonskih podložnih ploča za novo popločavanje oko objekta i formiranje novih staza oko objekta. Armiranje prema opisu iz projekta konstrukcije. Sve dimenzije uzeti i vertikalni na licu mjesta. U cijenu uračunati sve potrebne materijale i radove. Otvradu po m ³ .		m ³		55.00	
5.3	ENG		Procurement of material, transportation and making of new lightly reinforced concrete slabs for the new pavement around the building and making of new paths. Steel reinforcement according to the descriptions from the structural project. All measures to be confirmed and taken on site. All necessary material and works to be included in the price. Cost per cubic meter.					

RBANR	LANS	POZ	OPIS / DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLICINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
	BIH		Nabavka materijala, transport i izrada novih lako armiranih betonskih stepenica i rampe ispod južne fasade objekta. Armiranje prema opisu iz projekta konstrukcije. Sve dimenzije uzeti i verificirati na licu mjesta. Vinsku razliku i dimenzije stepenica usaglasiti na terenu. U okviru po m3.		m3	10,00	€	100,00
	ENG		Procurement of material, transportation and making of new lightly reinforced concrete stairs and ramp in front of the south building facade. Steel reinforcement according to the drawings and descriptions from the structural project. All measurements to be taken and confirmed on site. Vertical difference and the raser height to be verified on site. All necessary material and works to be included in the price. Cost per cubic meter.					
	BIH		Nabavka materijala, transport i izrada novih betonskih stubova sa temeljima na tlu i armiranjem, podizanje stubova prema grafičkim nacrtima. Armiranje stubova izvrši prema planu armiranja iz projekta konstrukcije. Stubovi opremljeni interkomom sa kamerom, sve prema projektu elektrifikacije. Radove izvesti u koordinaciji sa projektantom i federalnim uredom za sponenike. Sve dimenzije uzeti i verificirati na licu mjesta. Okviru po m3.		m3	2,00	€	200,00
	ENG		Procurement of material, transportation and making of new concrete pillars with the accompanying foundations for the entry gates. Steel reinforcements to be done according to the drawings and descriptions from the structural project. Posts are to be filled with the camera and doorbell, all according to the drawings and descriptions from the electrical project. Works to be done in coordination with the main designer and the federal office for the monuments. All measurements are to be taken and confirmed on site. Cost per cubic meter.					
			UKUPNO / TOTAL				€	5
			ZIDARSKI RADovi / MASONRY WORKS					
	BIH	6.1	Nabavka materijala, transport i izdajenje novih parapetnih zidova zatvorene terase u prizemlju ispred sjeverne fasade objekta, sve prema grafičkim nacrtima i po uzoru na postojeće stajne. Prilikom zdanja koristiti adekvatan sastav maltera u potrebnom omjeru komponenti. Sve dimenzije uzeti i verificirati na licu mjesta. Okviru po m3.		m3	2,50		
	ENG		Procurement of material, transportation and making of new parapet walls for the terraces on the ground floor in front of the north facade, all according to the architectural drawings and by example of the existing stiles. Masonry works to be done using the appropriate mortar composition. All measurements to be taken and confirmed on site. Cost per cubic meter.					
	BIH	6.2	Nabavka materijala, transport i izdajenje ispunu postojećih otvora općim oginama, sve prema grafičkim nacrtima. Prilikom zdanja koristiti adekvatan sastav maltera u potrebnom omjeru komponenti. Sve dimenzije uzeti i verificirati na licu mjesta. Okviru po m3.		m3	4,00		
	ENG		Procurement of material, transportation and walling off the existing internal door opening's using bricks, all according to the architectural drawings. Masonry works to be done using the appropriate mortar composition. All measurements to be taken and confirmed on site. Cost per cubic meter.					
			UKUPNO / TOTAL				€	
			HIDROIZOLACIONI RADovi / WATERPROOFING WORKS					
	BIH	7.1	Nabavka materijala, transport i ugradnja tečne hidroizolacije na prethodno završenu, odškenu i pripremljenu podnu površinu pripreme elaza, kao i na podne površine sanitarni čvorova na etaži prvog sprata i podova podrumске prostorije. Hidrozaključki podici uz zidove do visine od oca, 20cm. U svemu postupati prema uputstvima i detaljima odabranog proizvođača materijala. Izbor materijala koordinirati sa projektantom. Okviru po m2.		m2	267,00		
	ENG		Procurement of material, transportation and instalment of liquid waterproofing on finished, cleaned and prepared floor surface of the ground floor, as well as any other floor surfaces, ex. in the toilets and kitchens. Waterproofing is to be raised up the wall approx. 20cm. All works to be completed according to the specification and directions of the chosen material manufacturer. Choice of material to be coordinated with the main designer. Cost per square meter.					
	BIH	7.2	Nabavka materijala, transport i ugradnja tečne hidroizolacije na novu betonsku ploču terasa stepeništa ispred južne fasade objekta. U svemu postupati prema uputstvima i detaljima odabranog proizvođača materijala. Izbor materijala koordinirati sa projektantom. Okviru po m2.		m2	16,00	€	160,00
	ENG		Procurement of material, transportation and instalment of liquid waterproofing on the new concrete slab in front the south building facade. All works to be completed in accordance with the specification and directions of the chosen material manufacturer. Choice of material to be coordinated with the main designer. Cost per square meter.					

RAJNR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
7.3	ENG		Nabavka materijala, transport i ugradnja paropropusne vodo-nepropusne folije na krovni pokrov. Izbor materijala koordinirati sa projektantom. Obraditi po m2. Procurement of material, transportation and instalment of water-light barrier on the roof boarding, the outside face. Choice of material to be coordinated with the man designer. Cost per square meter.		m2		251,00	
UKUPNO / TOTAL								
8. GIPS-KARTONSKI RADovi / PLASTERBOARD WORKS								
8.1	ENG		Nabavka materijala, transport i zrada unutrasnjih pregradnih zidova od gips-kartonskih ploča prema grafičkom nacrtima. U svemu raditi prema uputstvima i detaljima ugradnje proizvodaca odabranog materijala. U skladu pozicije uraditi i radove glatovanja nožih zidova od gips-kartona. Isp. i finišno bojenje sve u skladu sa uputstvima i detaljima proizvođača odabranih materijala. Pregradne zidove ispuniti akustičnom izolacijom - vuna, nabavka tekućina zaštitnih slojeva. Sve dimenzije uzeti i verificirati na licu mjesta. Obraditi po m2. Ovom u zidu su oduzeti od površine. Procurement of material, transportation and making of new internal partition walls from gypsum-boards or plaster-boards, all according to the architectural drawings. All works to be completed according to the specification and direction of the chosen material manufacturer. In the works are to be included all works related to the finishing of the wall surfaces as well as painting the finished surface, all according to the specification and directions of the chosen material manufacturer. The new walls are to be filled out with rock wool for acoustic insulation (procurement of wool is treated separately). All measurements are to be taken and confirmed on site.		m2		131,00	
UKUPNO / TOTAL								
9. TERMO-IZOLACIJSKI RADovi / THERMAL AND SOUNDPROOFING WORKS								
9.1	ENG		Nabavka materijala, transport i ugradnja kamene vune između postolja krova konstrukcije, u debljini rogova. Ophlovanje daskama sa unutrasnje strane i poslije ugradnje vodo-nepropusne folije sa vanjske strane tekućina zaštitnih slojeva. Obraditi po m2 ortogonalne površine. Procurement of material, transportation and instalment of rock wool between the roof structure, in the thickness of the roof structure. Boarding of the roof structure from the inside and outside face as well as instalment of the water-light barrier is calculated separately.		m2		251,00	
UKUPNO / TOTAL								
9.2	ENG		Nabavka materijala, transport i ugradnja akustične izolacije - EPS II ekvivalent, za zgradu slojne nožih podova. Obraditi po m2. Procurement of material, transportation and instalment of the acoustic layer material for the new floors. Cost per square meter.		m2		516,00	
9.3	ENG		Nabavka materijala, transport i ugradnja akustične izolacije - vuna, u nove pregradne gips-kartonske zidove. Obraditi po m2. Procurement of material, transportation and instalment of acoustic insulation, rock wool, in the new partition walls. Cost per square meter.		m2		66,00	
UKUPNO / TOTAL								

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
10.			PODPOPLAČAKI RADOVI / WOOD FLOORING WORKS					
10.1	BH		Nabavka materijala, transport, izrada i ugradnja estriha za sve podove prizemne etaže unutar objekta i prostore samostalnih dvorova na etaži prvog sprata, sve prema grafičkim nacrtima. Debljina estriha je min. 4cm uz izvedene neophodne nakone u samostalnim prostorijama prema podnom odvodima. Različite debljine aljuna podova kroz objekte ustanovi na licu mjesta i prilagoditi debljine izvedenog estriha definišućim finišni; koji gotovog poda. Sve dimenzije uzeti i vertikalni na licu mjesta. Otvradin po m2.		m2	267,00		
	ENG		Procurement of material, transportation and making of screed for the new floors on the ground floor as well as in the new toilets and kitchens, all according to the architectural drawings. Thickness of the screed is at least 4cm, with the needed pitch of the flooring to the floor water waste spot. Differences in the floor thicknesses are to be evaluated on site and made accordingly to fit the heights defined in the architectural drawings. All measurements are to be taken and confirmed on site. Cost per square meter.					
10.2	BH		Nabavka materijala, transport i ugradnja novih podova od parketa sa svim potrebnim predradnjama postavljanja i završne obrade parketa. Izraditi shemu podlaganje te dostaviti projektantu na odobrenje. Dimenzije parketa kao i vrsta parketa prema odobrenju shemi podlaganja. U cijenu stavke uračunati i neophodne popravke na podovima i eventualno izradu nove podloge. Sve dimenzije uzeti i vertikalni na licu mjesta. Otvradin po m2.		m2	300,00		
	ENG		Procurement of material, transportation and making of new wooden floors with all necessary pre-works for instalment and finish of the chosen flooring. Flooring scheme is to be made beforehand and approved by the main designer. Dimensions of the flooring according to the approved scheme. In the price are to be included all needed repairs on existing and/or making of new substructure. Cost per square meter.					
UKUPNO / TOTAL								
11.			KERAMIČARSKI I KAMENO-HEŽAČKI RADOVI / CERAMIC TILING AND STONE TILING WORKS					
11.1	BH		Nabavka materijala, transport i ugradnja novih podnih keramičnih pločica sa svima potrebnim predradnjama ugradnje za podove unutrašnjih prostorija, sve prema grafičkim nacrtima. Izraditi shemu podlaganje te dostaviti projektantu na odobrenje. Dimenzije i vrsta podnih keramičnih pločica prema odobrenju shemi podlaganja. U cijenu stavke uračunati i izradu i ugradnju radnih lajsni od iste keramike, gde su potrebne, sve prema odobrenju shemi podlaganja. U sklopu stavke uključiti i nabavku svih potrebnih slojeva poda, u svemu prema detaljima grafičkih nacrtia. Sve dimenzije uzeti i vertikalni na licu mjesta. Otvradin po m2.		m2	124,50		
	ENG		Procurement of material, transportation and instalment of new ceramic floor tiles with all necessary pre-works for the internal rooms, all according to the architectural drawings. Flooring scheme is to be made beforehand and approved by the main designer. Dimensions and type of the tiles is according to the approved scheme. In the price is to be included making and instalment of floor cornices where needed, all according to the approved scheme. All measurements are to be taken and confirmed on site. Cost per square meter.					
11.2	BH		Nabavka materijala, transport i ugradnja novih zidnih keramičnih pločica u samostalnim prostorijama i kuhinji sa svim potrebnim predradnjama ugradnje. Izraditi shemu podlaganja te dostaviti projektantu na odobrenje. Dimenzija i vrsta zidnih keramičnih pločica prema odobrenju shemi podlaganja. U sklopu stavke uključiti i izradu svih potrebnih slojeva poda koji nisu uređeni zasebnim stavkama, u svemu prema detaljima grafičkih nacrtia. Sve dimenzije uzeti i vertikalni na licu mjesta. Visina ugradnje h=200cm. Otvradin po m2.		m2	110,00		
	ENG		Procurement of material, transportation and instalment of new ceramic wall tiles in the toilets and kitchen with all necessary pre-works. Wall tiling scheme is to be made beforehand and approved by the main designer. Dimensions and type of wall tiles according to the approved scheme. All measurements are to be taken and confirmed on site. Installation height h=200cm Cost per square meter.					
11.3	BH		Nabavka materijala, transport i ugradnja novih podnih keramičnih pločica za ugradnju na vanjske terase i balkon sa svim potrebnim predradnjama ugradnje. Izraditi shemu podlaganja te dostaviti projektantu na odobrenje. Dimenzija i vrsta podnih keramičnih pločica prema odobrenju shemi podlaganja. U sklopu stavke uključiti i izradu svih potrebnih slojeva poda koji nisu uređeni zasebnim stavkama, u svemu prema detaljima grafičkih nacrtia. Sve dimenzije uzeti i vertikalni na licu mjesta. Otvradin po m2.		m2	23,27		
	ENG		Procurement of material, transportation and instalment of new ceramic floor tiles on the outside terraces and balcony with all necessary pre-works. Flooring scheme is to be made beforehand and approved by the main designer. Dimensions and type of tiles according to the approved scheme. All measurements are to be taken and confirmed on site. Cost per square meter.					

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	MARKOVENE / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
								UKUPNO / TOTAL
								€
11.3	BIH		Nabavka materijala, transport i ugradnja novih podnih KAMENIH ploča sa svima potrebnim predradnjama ugradnje za podove unutarnjih prostorija, sve prema grafičkim nacrtima. Izraditi shemu podlaganja te dostaviti projekatnu na odobrenje. Dimenzije i vrsta podnih kamenih ploča prema odobrenj shemi podlaganja. U cijenu stavke uključeni i izradu ugradnju rdnih lagnu od iste keramike, gdje su potrebna, sve prema odobrenj shemi podlaganja. U sklopu stavke uključiti i nabavku svih potrebnih slojeva poda, u svrhu prema detaljima grafičkih nacrti. Sve dimenzije uzeti i verificirati na licu mjesta. Obracun po m2.		m2	45.77		
	ENG		Procurement of material, transportation and instalment of new STONE floor tiles with all necessary pre-works for the internal rooms, all according to the architectural drawings. Flooring scheme is to be made beforehand and approved by the main designer. Dimensions and type of the tiles is according to the approved scheme. In the price is to be included making and instalment of floor cornices where needed, all according to the approved scheme. All measurements are to be taken and confirmed on site. Cost per square meter.					
11.3	BIH		Nabavka materijala, transport i ugradnja novih podnih KAMENIH ploča sa svima potrebnim predradnjama ugradnje za pod terase ispred južne fasade, sve prema grafičkim nacrtima. Izraditi shemu podlaganja te dostaviti projekatnu na odobrenje. Dimenzije i vrsta podnih kamenih ploča prema odobrenj shemi podlaganja. U sklopu stavke uključiti i nabavku svih potrebnih slojeva poda, u svrhu prema detaljima grafičkih nacrti. Sve dimenzije uzeti i verificirati na licu mjesta. Obracun po m2.		m2	62.00		
	ENG		Procurement of material, transportation and instalment of new STONE floor tiles with all necessary pre-works for the internal rooms, all according to the architectural drawings. Flooring scheme is to be made beforehand and approved by the main designer. Dimensions and type of the stone tiles is according to the approved scheme. All measurements are to be taken and confirmed on site. Cost per square meter.					
			UKUPNO / TOTAL			€		
12.			RADOVI VANSKOOG POPLOČAVANJA / SITE TILING WORKS					
12.1	BIH		Nabavka materijala, transport i ugradnja kamene obloge za novu rampu i novo stepenište ispred južne fasade objekta, sve prema grafičkim nacrtima. Detalje i shemu ugradnje usaglasiti sa projektantom. Dimenzije i vrsta kamenih obloga prema odobrenj shemi podlaganja. Sve dimenzije uzeti i verificirati na licu mjesta. Obracun po m2.		m2	20.00		
	ENG		Procurement of material, transportation and placement of stone coverings for the new stairs and ramp in front of the south building facade. Detail of the works to be coordinated with the main designer. Dimensions and type of stone slabs according to the approved scheme. All measurements are to be taken and confirmed on site. Cost per square meter.					
12.2	BIH		Nabavka materijala, transport i ugradnja betonskih ploča za formiranje staza oko objekta, sve prema grafičkim nacrtima. Izraditi shemu podlaganja i dostaviti projekatnu na odobrenje. Dimenzije i vrsta betonskog popločavanja prema shemi podlaganja. Detalje ugradnje i shemu podlaganja usaglasiti sa projektantom. Sve dimenzije uzeti i verificirati na licu mjesta. Obracun po m2.		m2	610.00		
	ENG		Procurement of material, transportation and placement of concrete pavement tiles for the paths around the building perimeter, all according to the architectural drawings. Pavement scheme is to be made beforehand and approved by the main designer. Dimensions and type of concrete pavement tiles according to the approved scheme. All details of the works are to be coordinated with the main designer. All measurements are to be taken and confirmed on site. Cost per square meter.					
12.3	BIH		Nabavka materijala, transport i ugradnja kamene obloge za mali bazen na prizemnoj etaži ispred sjeverne fasade, sve prema grafičkim nacrtima. Izraditi shemu podlaganja i dostaviti projekatnu na odobrenje. Detalje ugradnje i shemu podlaganja usaglasiti sa projektantom. Dimenzije i vrsta kamenih obloga prema odobrenj shemi podlaganja. Sve dimenzije uzeti i verificirati na licu mjesta. Obracun po m2.		m2	15.00		
	ENG		Procurement of material, transportation and placement of stone coverings for the small pool on the ground floor in front of the north facade, all according to the architectural drawings. The tiling scheme is to be made beforehand and approved by the main designer. Dimensions and type of covering is according to the approved scheme. In the works are to be included all necessary pre-works for the layers of the floor. All measurements are to be taken and confirmed on site. Cost per square meter.					
			UKUPNO / TOTAL			€		

RB./NR.	LANG.	POZ.	OHIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
13.			MONTAŽNI RADovi / SHEET METAL WORKS					
	BH		Nabavka materijala, transport, izrada i ugradnja novih horizontalnih i vertikalnih dlaka prema uzoru na postojeće. Postojeće dekorativne nosače dlaka na tornju sanirati i restaurirati, oštećene dijelove nosače izraditi po uzoru na postojeće. Sve dimenzije uzeti i verificirati na licu mjesta po uzoru na postojeće elemente. Novi limeni dijelovi su očišćeni bogem lim, izbor boje u koordinaciji sa projektantom. U cijenu uključeno uzdati izradu i ugradnju svih izostanih elemenata. Obraditi po m ² .		m ²	65,00		
13.1		a.	Olučne horizontalne		m ²	56,00		
	BH	b.	Olučne vertikalne					
13.1	ENG		Procurement of material, transportation, making and instalment of new horizontal gutters and vertical downpipes, all according to the existing ones. Existing supporting decorated elements on the tower are to be repaired and restored to their original position, the damaged ones are to be replaced with the new ones made according to the existing ones. New gutters and downpipes are made from galvanized painted metal sheets, choice of color in coordination with the main designer. In the price are to be included all necessary pieces. All measurements are to be taken and confirmed on site all according to the existing ones. Cost per m ² .					
		a.	Gutters horizontal					
		b.	Downpipes vertical					
14.			MONTAŽNI RADovi / ASSEMBLY WORKS					
	BH		Nabavka materijala, transport, izrada i ugradnja novih limenih opšava fasadnih vijenaca, ograde terase i balkona, zabahtih zidova, dimnjaka, krovnih grebena i uvala te svjetiljnika. Nove opšave izraditi po uzoru na postojeće. Sve dimenzije uzeti i verificirati na licu mjesta. Novi limeni opšavi su očišćani bogem lim, izbor boje u koordinaciji sa projektantom. Obraditi po m ² .		m ²	64,00		
14.2		a.	Vijenci RS=cca. 25cm		m ²	23,00		
	BH	b.	Ograda balkona i terase RS=cca. 35cm		m ²	33,00		
		c.	Zabahtih zidov RS=cca. 80cm		m ²	18,00		
		d.	Dimnjaci RS=cca. 80cm		m ²	87,00		
		e.	Krovni grebeni i uvali RS=90cm		m ²	21,00		
		f.	Krov svjetiljnika RS=120cm		m ²			
14.2	ENG		Procurement of material, transportation, making and instalment of new galvanized painted metal sheets for the facade cornice, terrace and balcony balustrades, gabled walls, chimneys, roof ridges and the roof skylight. All new elements are to be made according to the existing ones. New elements are made from galvanized painted metal sheets, choice of color in coordination with the main designer. Cost per m ² .					
		a.	Cornice's brulo width=cca. 25cm					
		b.	Balcony and terrace balustrade brulo width=cca. 35cm					
		c.	Gable walls brulo width=cca. 80cm					
		d.	Chimney's brulo width=cca. 80cm					
		e.	Roof ridges and eaves brulo width=cca. 90cm					
		f.	Skylight roof brulo width=cca. 120cm					
			UKUPNO / TOTAL				€	
14.			MONTAŽNI RADovi / ASSEMBLY WORKS					
	BH		Nabavka materijala, transport, izrada i ugradnja rampe sa nov rukohvatima, za savladavanje visine razlike od cca. 20cm na elazi prizemlja, sve prema gradbenim nacrtima. Izraditi radioničke nacрте te dostaviti projektantu na odobrenje. Sve dimenzije uzeti i verificirati na licu mjesta. Obraditi po m ² .		m ²	2,00		
14.1	ENG		Procurement of material, transportation and making of a ramp with stainless steel handrails, for overcoming of vertical difference of approximately 20cm on the ground floor, all according to the architectural drawings. Shop drawings are to be made and sent to the main designer for approval prior to beginning of construction. All measurements are to be taken and confirmed on site. Cost per m ² .				€	
	BH		Nabavka materijala, transport, izrada i ugradnja stepenika u podrumskoj prostoriji ispred novo-formiranog ulaza u objekat. Visinsku razliku i broj podstupa stepenika verificirati na licu mjesta nakon radova prodoljnog otvora te usaglasiti sa projektantom. Obraditi po komadu.		komad / piece	1,00		
14.2	ENG		Procurement of material, transportation and making of stairs in the basement room, in front of the newly formed entrance for the basement room. Height difference and the needed number of raisers is to be confirmed on site after the new opening is made, all works to be coordinated with the main designer. All measurements are to be taken and confirmed on site. Cost per unit.					

RS/R/R	LANG.	POZ.	OPS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLICINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
14.3	BH		Nabavka transport i ugradnja rukovlata za rampu i stepenište ispred južne fasade objekta, pozicija prema grafičkim nacrtima. Izbor materijala detaljno izvedbe koordinirati sa projektantom. Sve dimenzije uzeti i verifikirati na licu mjesta. Obradun po m ² .		m ²	25.00	€	
	ENG		Procurement of material, transportation and making of a handrail for the new ramp and stairs in front of the south facade, all according to the architectural drawings. Choice of material and the details of installation to be coordinated with the main designer. All measurement to be taken and confirmed on site. Cost per m ² .					
14.4	BH		Nabavka materijala, transport, izrada i ugradnja nove ulazne kapije za vozila na poziciji postojećeg ulazne kapije. Kapiju izvesti kao mehanizovanu, jedno-parnetu kiznu kapiju u manju postojeće kapijelograde ili prema prijedlogu izvođača, sve u koordinaciji sa projektantom. Obradun po komadu.		komad / piece	1.00		
	ENG		Procurement of material, transportation, making and installation of new vehicle entry gate on the position that corresponds with the existing vehicle gate. Gate to be made as a mechanized, single-panel, sliding gate with the design that is derived from the existing force on the sides of the gate, all works to be done in coordination with the main designer. All measurements to be taken and confirmed on site. Cost per unit.					
14.5	BH		Nabavka materijala, transport, izrada i ugradnja nove ulazne kapije za pješake na južnoj granici parcele. Novu ulaznu kapiju izraditi kao jednostrano ovisenu u manju postojeće kapijelograde ili prema prijedlogu izvođača, sve u koordinaciji sa projektantom. Obradun po komadu.		komad / piece	2.00		
	ENG		Procurement of material, transportation, making and installation of the new pedestrian entry gate on the south border wall. New gate to be done as one-sided opening with the design that is derived from the existing gate and redesigned to fit the new entry, all works to be done according to the architectural drawings and to be coordinated with the main designer. All measurements are to be taken and confirmed on site. Cost per unit.					
14.6	BH		Nabavka i ugradnja klupa za vanjsko uređenje, pozicija prema grafičkim nacrtima i u koordinaciji sa projektantom. Obradun po komadu.		komad / piece	4.00		
	ENG		Procurement and the installation of new benches for the site landscape design, all according to the architectural drawings and in coordination with the main designer. Cost per unit.					
14.7	BH		Nabavka i postavljanje kanti za otpad, pozicija prema grafičkim nacrtima i u koordinaciji sa projektantom. Obradun po komadu.		komad / piece	3.00	€	
	ENG		Procurement and installation of the new trashcans, position according to the architectural drawings. Choice of trashcan design to be coordinated with the main designer. Cost per unit.					
14.8	BH		Nabavka, transport i ugradnja potrebnih elemenata kuhinje na etazi prizemlja, izraditi tehnološki shemu prema grafičkim nacrtima projekta i dostaviti projektantu na odobrenje. Spisak potrebnih elemenata prema tehničkom opisu i projektu masinskih instalacija. Sve dimenzije uzeti i verifikirati na licu mjesta. Svi radovi u koordinaciji sa projektantom. Obradun po kompletu.		komplet / set	1.00		
	ENG		Procurement of equipment, transportation and installation of the new kitchen on the ground floor. Technological scheme is to be made and sent to the main designer for approval. List of needed elements is presented in the technical description and the main design of mechanical installations. All measurements are to be taken and confirmed on site. All works to be coordinated with the main designer. Cost per set.					
14.9	BH		Nabavka, transport i ugradnja novih montaznih prozrada za formiranje wc kabina od HPL panela. Sve dimenzije uzeti i verifikirati na licu mjesta. Svi radovi u koordinaciji sa projektantom. Obradun po m ² .		m ²	6.50		
	ENG		Procurement, transportation and installation of new partition panels for toilets made from HPL. All measurements are to be taken and confirmed on site. All works to be coordinated with the main designer. Cost per m ² .					

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL	
			Nabavka, transport i ugradnja elemenata kuhinje u prijemlju. Obracun po kompletu. LEGENDA KUHINJE / KITCHEN ELEMENTS 1. ULAZNI STOL ZA PERILICU SUDA – INOX / ENTRY TABLE FOR THE DISHWASHER Dim: 120x70x85 2. KONZOLNA ZIDNA POLICA – INOX / CONSOLE WALL SHELF Dim: 120x30x50 3. TUŠ ZA ISPRANJE SA PIPOM / SPOUT FOR DISHWARE RINSING 4. PERILICA SUDA / DISHWASHER dim: 60x70x150 Dim: kope 50x50 400V 9.95 kW 5. DEPURATOR AUTOMATSKI / DEPURATOR Dim: 5l 6. IZLAZNI STOL ZA PRELILICU SUDA – INOX / EXIT TABLE FOR DISHWASHER Dim: 120x60x85 7. SUDOPER – INOX / SINK FOR THE DISHWARE 8. RASHLADNI PULT – INOX / REFRIGERATOR COUNTER Dim: 120x70x85 9. KONZOLNA ZIDNA POLICA – INOX / CONSOLE WALL SHELF Dim: 120x30x50 10. GASTRO ZAMRZIVAČ / REFRIGERATOR Dim: 70x70x200 11. RUKOPER ZIDNI SA PIPOM – INOX / HAND WASHING SINK WITH FLEXIBLE SPOUT Dim: 50x50 11A. KONZOLNA ZIDNA POLICA – INOX / CONSOLE WALL SHELF Dim: 50x30x50 12. ŠTEDNJAK 4 PLINSKA PLAMENIKA OTVORENA / GAS COOKER WITH 4 RINGS Dim: 70x70 2x5kW + 2x7.5kW 12A. PEČINICA ELEKTRIČNA / CONVECTION OVEN ELECTRICAL Dim: 70x70x60 13. STOL BLOK – INOX / TABLE Dim: 50x70x85 14. FRITRZA SAMOSTOJEA ELEKTRIČNA / ELECTRICAL FRYER FREESTANDING Dim: 40x70x85x90 1.1 2 kW 400V dvostrana 15. KUHALO ZA TJEŠTENINU SAMOSTOJEA ELEKTRIČNO / ELECTRICAL COOKER FOR PASTA Dim: 40x70x85x90 3kW = 9kW 16. STOL BLOK – INOX / TABLE Dim: 50x70x85 17. ROŠTILJ SAMOSTOJECI PLINSKI / GAS GRILL FREESTANDING Dim: 80x70x85x15kW 18. NAPA CENTRALNA SA LABIRINT FILTEROM / CENTRAL RANGE HOOD ČEPOVIMA ZA MAST I RASVJETLOM – INOX / WITH FILTERS AND LIGHT Dim: 325x75x45 Procurement, transportation and installation of new kitchen elements on the ground floor. Cost per set.						
UKUPNO / TOTAL									
15.			TERARSKI I STOLARSKI RADOVI - VANI / RESTAURATORSKI RADOVI / WOODWORKING - OUTSIDE / RESTORATION WORKS					91,050.00	
	ENG		Demontaža svih drvenih elemenata ograde balkona na istočnoj fasadi i ograde terase na sjevernoj fasadi te uzimanje mjera i uzorka postojećih ograda. Nove elemente izraditi po uzoru na postojeće te ih ugraditi na pripadajuće pozicije. Rekonstruirane drvene elemente ograde zasliti adekvatnim metodama i materijalima te finišno bojiti. Izbor boje usaglasiti sa projektantom i vlasnikom. Sve dimenzije uzeti i verificirati na licu mjesta. Sav otpadni i neupotrebljivi materijal transportovati na deponiju /ili reciklažu, cca:H=100cm Obraditi po m ¹ .		m ¹		20.00		
	ENG		Dismantling of all wood elements of the balcony balustrade on the east facade and all wooden elements of the terrace balustrade on the north facade, measurements are to be taken and the design of the elements recorded. New elements to be made according to the existing ones, and to be installed on the original position. Reconstructed wooden elements are to be properly protected and finished using approved methods and materials. Choice of final color in coordination with the main designer and the owner. All measurements are to be taken and confirmed on site. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m ¹ .						

RB./NR.	LANG.	POZ.	QHS / DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLICINA / AMOUNT	CIENA / UNIT PRICE	UKUPNO / TOTAL
	BH		<p>Padriva demontaža elemenata nosive konstrukcije balkona na istočnoj fasadi te nakon ustanovljenog stanja očuvanosti izvršiti sanaciju i restauraciju elemenata, u suprotnome izvršiti izradu novih elemenata, u svemu prema uzoru na postojeće. Restaurirane i rekonstruirane drvene elemente konstrukcije zaštititi adekvatnim metodama i materijalima te finalno bojiti. Izbor boje usaglasiti sa projekantom. Sve dimenzije uzeti i verificirati na licu mjesta. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili reciklažu. Održati po m2 horizontalne projekcije.</p>		m2	6,00	:	
14.2	ENG		<p>Careful dismantling of existing structural elements for the balcony on the east facade, state of the structure to be examined and in case restoration is possible, make the necessary interventions, otherwise procure the material and make new elements according to the existing ones. Restored and reconstructed elements are to be adequately protected and finished with the appropriate materials, approved beforehand by the federal office for monuments and painted. Choice of color to be coordinated with the main designer. All measurements are to be taken and confirmed on site. All waste and unusable material is to be transported to the dump and/or recycling.</p> <p>Cost per square meter of horizontal view.</p>					
15.3	ENG		<p>Careful dismantling and demolition of wooden elements of the terrace in front of the north facade on the ground floor, together with the masonry parapets, taking of samples, recording of measurements and storage of the material on the site. State of the existing elements is to be examined and if restoration is possible, make the necessary interventions with the appropriate methods, otherwise procure the material and make new elements according to the existing ones. Restored and reconstructed elements are to be treated with the appropriate materials, approved beforehand by the federal office for monuments. Choice of color is to be approved by the main designer. Procurement of material and making of the masonry parapets is treated separately. All measurements are to be taken and confirmed on site. All waste and unusable material is to be transported to the dump and/or recycling.</p> <p>Cost per square meter.</p>		m2	75,00	:	
14.4	ENG		<p>Procurement of material, transportation and installation of missing pieces of the wooden roof planks from the outside face and installation of the new planks on the inside face after placement of the thermal insulators between the existing roof rafters. In the works is to be included the procurement and installation of all needed pieces for the roof construction like the battens and cross-battens on the outside face for the installation of the eternit slabs. Installation of the watertight barrier is treated separately. In the works to be included procurement and replacement of the existing wooden planks on the lower's roofs.</p> <p>Cost per m2 of orthogonal roof projection.</p>		m2	251,00	:	
16.	BH		<p>Nabavka materijala, transport i ugradnja nedostajućeg dešćanog pokrova za krov sa vanjske strane i novog pokrova sa unutrašnje strane nakon ugradnje termo-zalozione vune između postojeće krovne konstrukcije. U sklopu stavke uračunati nabavku i ugradnju novih levi i kontralevi, sa vanjske strane za potrebe kovanja ravnih eternit ploča. Ugradnja paropropusne vodonepropusne folije tretirana je posebnom stavkom. U sklopu pozicije obuhvatiti i sanaciju i eventualnu zamjenu dešćanog pokrova brijeva. Održati po m2 ortogonalne projekcije krova.</p>		m2	251,00	:	
16.1	ENG		<p>Procurement of material, transport and installation of missing pieces of the wooden roof planks from the outside face and installation of the new planks on the inside face after placement of the thermal insulators between the existing roof rafters. In the works is to be included the procurement and installation of all needed pieces for the roof construction like the battens and cross-battens on the outside face for the installation of the eternit slabs. Installation of the watertight barrier is treated separately. In the works to be included procurement and replacement of the existing wooden planks on the lower's roofs.</p> <p>Cost per m2 of orthogonal roof projection.</p>		m2	251,00	:	
			UKUPNO / TOTAL					€
			BETONSKI ELEMENTI - VANJ I RESTAURATORSKI RADOVI / CONCRETE ELEMENTS - OUTSIDE RESTORATION WORKS					
	BH		<p>Padriva demontaža elemenata betonske ograde sa betonskim stubovima na stepeništu južne fasade prema gradilom nacrtima, evidentiranje pozicije i stepena očuvanosti pojedinačnih elemenata te njihov deponovanje na gradilištu i priprema za radove sanacije, restauracije ili rekonstrukcije te ponovnu ugradnju na pripadajuće pozicije. Radove sanacije, restauracije ili rekonstrukcije elemenata izvršiti adekvatnim metodama i odobrenim materijalima. Rekonstruirane elemente izraditi od materijala sličnog sastava i strukture, sa istom ili sličnom metodologijom završne obrade, sve po uzoru na postojeće elemente. Postojeće stepenice temeljito očistiti, sve pukotine i oštećenja sanirati adekvatnim materijalom odgovarajuće strukture prema postojećem. U sklopu pozicije uračunati i ugradnju, sanaciju ili zamjenu postojeće unutrašnje armature nagnutih betonskih stubova. Ogradu na lijevoj strani prilagoditi novome stanju sa filom, sve radove koordinirati sa projekantom. Sav otpadni i neupotrebljivi materijal transportovati na deponiju. Održati po m1.</p>		m1	15,00	:	
	ENG		<p>Careful dismantling of concrete balustrade elements with the concrete posts, on the stairs located in front of the south facade all according to the architectural drawings, marking of the positions, evaluating the state of disrepair of the individual elements, storage of the dismantled elements on the site, their preparation for the works of the restoration and reconstruction and their subsequent return on the original positions. Works of the restoration and reconstruction are to be done with the appropriate methods and with the approved materials. Elements that are to be reconstructed, are to be made from the materials with the same and/or similar structure and composition, same and/or similar methods of making and finishing, all according to the existing elements. Existing stairs are to be cleaned, all cracks and distortions to be repaired with appropriate and approved materials and methods all according to the existing ones. In the works are to be included repair or replacement of the existing iron reinforcements in the cracked concrete posts with appropriate materials and methods. A part of the existing balustrade is to be remodelled and replaced with the new elements made in the mannerism of the existing balustrade elements, for the placement of the disabled access elevator platform, all works to be coordinated with the main designer. All waste and unusable material is to be transported to the dump.</p> <p>Cost per m1.</p>					

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLICINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
	BIH	16.2	Sanacija i restauracija betonskog stepeništa na prizemlju etaži iznad stepene fasade. Trenutno čišćenje stepeništa, popravak oštećenja i popunjavanje materijalom te naknadno izvođenje nedostajućih dijelova, sve po uzoru na strukturu postojećih. Sav otpadnik i neupotrebljiv materijal transportovati na deponiju.		m ²		8.00	1
	ENG		Repair and restoration of the concrete stairs on the ground floor in front of the north facade. Detailed cleaning, repair of the holes and cracks with the appropriate materials, as well as mending the missing pieces, all according to the structure of the existing parts. All waste and unusable material is to be transported to the dump.				Cost per square meter.	
	BIH	16.3	Demontaža dekorativnih betonskih elemenata sa vitra zabavnih zidova u formi vaza sa florantnim dekoracijama, evidentiranje pozicije i forme, te deponovanje na gradilištu. Nakon uklanjanja izvrsiti restauraciju i rekonstrukciju elemenata adekvatnim materijalom po uzoru na postojeću strukturu u suprotnome izvršiti nabavu novih elemenata, sve po uzoru na postojeće ili izradu sličnih te vrzavanje na pripadajuća pozicije. Sav otpadnik i neupotrebljiv materijal transportovati na deponiju. Radove izvesti u koordinaciji sa projektantom.		komad / piece		4.00	1
	ENG		Careful dismantling of all decorative flower-vase-like concrete elements from the top of the roof gabled walls, marking of the position and form and storage of the elements on site. After the detail examination of the state of disrepair of these elements make efforts to repair and restore them otherwise make reconstructed elements according to the remains or procure new ones with the same or similar design, all according to the existing ones and place them on the original positions. All works to be done in coordination with the main designer. All waste and unusable material is to be transported to the dump.				Cost per unit.	
	BIH	16.4	Sanacija i restauracija malog bazena iznad stepene fasade na prizemlju etaži. Evidentiranje oštećenja, te sanacija pukotina adekvatnim materijalom i materijalom. Izbacivanje otvora i odvoza voda prema projektnu vodoodvodni instalacije. Nabavka i ugradnja obilnog kamena teretara zateznom stazom. Sve dimenzije uzeti i vertikalni na licu mjesta. Sav radovi u koordinaciji sa projektantom. Sav otpadnik i neupotrebljiv materijal transportovati na deponiju.		m ²		15.00	
	ENG		Repair and restoration of the small pond-like pool in front of the north facade on the ground floor. Recording of the damage, repair of the cracks with the appropriate methods and approved materials. Installation of the new piping for water delivery and drainage, all according to the planning project documentation. All measurements are to be taken and confirmed on site. All works to be done in coordination with the main designer. All waste and unusable material is to be transported to the dump.				Cost per square meter.	
UKUPNO / TOTAL								
17.	METALNI ELEMENTI - VANIJ RESTAURACIJSKI RADOV I / METAL ELEMENTS - OUTSIDE RESTORATION WORKS							
	BIH	17.1	Radnja demontaža linearnog pokrova na tornjevima, vertikalnim površinama krova sa istim uzorkom, deponovanje elemenata na gradilištu deponiju te uzimanje uzoraka za izradu novih elemenata. Izradu novih elemenata izvršiti po uzoru na postojeće. U slučaju nemogućnosti izrade elemenata pokriva od istog materijala pristupiti pravilnoj kalupa na osnovu postojećih elemenata te izradu od modernih dostupnih materijala, po mogućnosti sličnih originalnom, sve u koordinaciji sa projektantom. U poziciju uključiti dijelove vertikalnog pokrova dijelova krova koji sa spajaju na tornjeve, kao i vertikalni pokrov na zidovima svjetiljnika. Sav otpadnik i neupotrebljiv materijal transportovati na deponiju ili reciklažu.		m ²		213.00	
	ENG		Ordnung po m ² ortogonalne projekcije.					
	BIH	17.2	Careful removal of the metal roof sheeting from the lower roofs, storage of the elements on the site and casting of molds for the making of new elements. New elements are to be made according to the existing ones. In case of inability to procure the new elements from the same material and design, make the new elements using the mold taken using the existing elements, and using modern available materials, all works in coordination with the main designer. In the works are to be included the vertical parts of the roof that are connecting the attic to the towers, these parts are by design and material similar to the structure of the lower roof metal sheeting, as well as the vertical gabled walls of the skylight. All measurements are to be taken and confirmed on site. All waste and unusable material is to be transported to the dump and/or recycling.		komad / piece		2.00	1
	ENG		Cost per m ² of orthogonal projection.					
	BIH	17.2	Demontaža gonodorana i metalnih zavrtastaka tornjeva, evidentiranje pozicije, te deponovanje na gradilište. Nakon utvrđivanja stanja očuvanosti elemenata, savrati i restaurirati ih te pripremiti za ponovnu ugradnju na pripadajuće pozicije. U sklopu pozicije uključiti i izradu i ugradnju novih gonodoranskih vodova, postavljanih prema projektnu instalaciju. Elemente temeljno očistiti, anti-korozivno zaštiti adekvatnim metodama i materijalima, te finišno bojiti odabranom bojom, sve u koordinaciji sa projektantom. Sav otpadnik i neupotrebljiv materijal transportovati na deponiju ili reciklažu.		komad / piece		2.00	1
	ENG		Ordnung po komadu.					
	ENG		Removal of the existing lightning rods from the top of the towers, marking of position and storage on site. After determining the state of damage on the elements, do the works or restoration and prepare them for subsequent installation to corresponding positions. Procurement and installation of new grounding elements is treated in the electrical project. Existing elements are to be cleaned, protected from rusting with adequate methods and materials, painted with approved color, all in coordination with the main designer. All waste and unusable material is to be transported to the dump and/or recycling.				Cost per unit.	

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
	BH		<p>Pažljiva demontaža svih metalnih elemenata ograde na balkonu istočne fasade i terasa sjeverne fasade, evidentiranje pozicije i odabiranja njihovo deponovanje na gradilištu, priprema za sanaciju i restauraciju te ponovnu ugradnju. Djelove koji su neopopravljivi ili nedostajaju nadomjestiti po uzoru na postojeće elemente adekvatnim materijalom. Elemente temeljno očistiti, anti-korozivno zaštititi adekvatnim metodama i materijalima te finalno bojiti odabranom bojom, sve u koordinaciji sa projektantom. Sve neodustajive dijelove nadomjestiti novima, izraditi po uzoru na postojeće. Sav otpadni i neopopravljivi materijal transportovati na deponiju i/ili reciklažu. Održati po komadu.</p>					
	ENG		<p>Careful removal of all metal elements located on the balconies of the east facing balcony and the north facing terrace, marking of positions, storage on the site, preparation for the works of restoration and subsequent installation. Parts that are irreparable or missing are to be replaced in accordance with the existing parts using appropriate materials. Existing elements are to be cleaned, coated with anti-rust materials, painted with the approved color, all in coordination with the main designer. After restoration, prepare the elements for installation to the corresponding positions. All waste and unusable material is to be transported to the dump and/or recycling. Cost per unit.</p>		komad / piece	40.00	€	
	BH		<p>Pažljiva demontaža elemenata terase na južnoj fasadi te deponovanje na gradilištu, priprema za sanaciju i restauraciju. Nakon završetka radova sanacije i restauracije pripremiti elemente za ponovnu ugradnju na pripadajuću poziciju. Elemente koje nije moguće restaurirati izvršiti rekonstrukciju po uzoru na postojeće. U skladu pozicije obilježiti sve potrebne radove, sanacije, kao i nabavku novih elemenata sve u skladu sa postojećim. Elemente temeljno očistiti, anti-korozivno zaštititi te finalno bojiti odabranom bojom, sve u koordinaciji sa projektantom. Sav otpadni i neopopravljivi materijal transportovati na deponiju i/ili reciklažu. Održati po m¹.</p>					
	ENG		<p>Careful removal of the awning-like element from the south facade, storage on the site, and preparation for the restoration of the elements. After restoration works, install the elements to their corresponding positions. Unrestorable elements are to be reconstructed by the example of the existing ones. In the works are to be included all works related to the restoration works, as well as all the necessary procurements of the new elements, all in accordance with the existing ones. Existing elements are to be cleaned, anti-rust coated, finally painted with the approved color, and all in coordination with the main designer. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m¹.</p>		m ¹	5.55	€	
	BH		<p>Pažljiva demontaža metalne ograde na poporcnom betonskom zidu ispod zapadne fasade objekta, evidentiranje pozicije, deponovanje na gradilištu te transport u radionicu za radove sanacije i restauracije. Djelove koji su neopopravljivi ili nedostajaju nadomjestiti po uzoru na postojeće. Nakon radova sanacije i restauracije pripremiti elemente za ponovnu ugradnju na novodimenzionirani zid. Postojeće elemente temeljno očistiti, anti-korozivno zaštititi adekvatnim metodama i materijalima te finalno bojiti odabranom bojom, sve u koordinaciji sa projektantom. Sav otpadni i neopopravljivi materijal transportovati na deponiju i/ili reciklažu. Održati po m¹.</p>					
	ENG		<p>Careful removal of the metal fence from the retaining concrete wall in front of the west facade, marking of the position, storage on site and moving to the workshop for restoration works. Parts that are deemed irreparable or are missing should be replaced with the new ones made on the example of the existing ones. After the restoration works the fence is to be reinstalled on the new retaining concrete wall. Existing fence elements are to be cleaned, anti-rust coating applied with appropriate methods and materials, finally painted in the approved color, all in coordination with the main designer. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m¹.</p>		m ¹	28.00		
	BH		<p>Sanacija i restauracija postojećih metalnih elemenata na istočnoj, zapadnoj i sjevernoj fasadi u formi glijfana. Evidentiranje oštećenja te izvršiti temeljno čišćenje, sanaciju adekvatnim metodama i odobrenim materijalima. U koordinaciji sa projektantom i konzervatorom razmotriti mogućnost zamjene elemenata od kovaneg željeza za elemente od nehrđajućeg čelika u suprotnome izvršiti anti-korozivnu zaštitu postojećih elemenata primjenom metoda i odobrenim materijalima. Održati po komadu.</p>		komad / piece	6.00		
	ENG		<p>Restoration of the existing metal elements located on the east, west and north facades, using the form a glyf. Determining the damage, perform detailed cleaning and restoration using appropriate methods and with approved materials. In coordination with the main designer and the conservators determine the possibility of replacement of these elements with the elements made from stainless steel, otherwise apply anti-rust coating with appropriate methods and approved materials. Cost per unit.</p>					
	BH		<p>Sanacija i restauracija elemenata metalne ograde na betonskom zidu duž zapadne granice parcele. Temeljno očistiti sve postojeće metalne dijelove ograde, anti-korozivno zaštititi adekvatnim metodama i materijalima te finalno bojiti odabranom bojom, sve u koordinaciji sa projektantom. Sve neodustajive dijelove nadomjestiti novima, izraditi po uzoru na postojeće. Sav otpadni i neopopravljivi materijal transportovati na deponiju i/ili reciklažu. Održati po m¹.</p>		m ¹	64.00	€	
	ENG		<p>Restoration of the existing metal fence elements placed on the concrete border wall running along the site's west edge. Perform detailed cleaning, apply anti-rust coating with appropriate methods and with approved materials, finally painted with the approved color, all in coordination with the main designer. All missing parts are to be replaced with the new ones, made by example of the existing ones. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m¹.</p>					

BS/LNR	LANG	POZ	ONS / DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLICINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
	BH		Sancija i restauracija metalne ograde na betonskom zidu duž južne granice parcele. Temeljno očisti postojeće elemente metalne ograde, anti-korozivno zaštitu adekvatnim metodama i materijalima te imano boji odabranom bojom, sve u koordinaciji sa projektantom. Sve nedostajuće dijelove nadomjestiti novima, izdatim po uzoru na postojeće. Sav otpadni i neupotrebivi materijal transportovati na deponiju ili reciklažu. Obracun po m ¹ .		m ¹		112.00	
	ENG		Restoration of the metal fence placed on the concrete border wall running along the site's south edge. Perform detailed cleaning of the existing metal fence elements, apply anti-rust coatings with appropriate methods and approved materials, finally painted with approved color, all in coordination with the main designer. All missing parts are to be replaced with the new ones, made by example on the existing ones. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m ¹ .					
			UKUPNO / TOTAL					€
			ROOVI I FASADNE ETERNIT I RESTAVRATORSKI RADOVI / ROOF ANS FACADE ETERNITE I RESTORATION WORKS					
	BH		Padnja demontaža krovne pokriva od eternit ploča, deponovanje materijala na gradilišnu deponiju, uzimanje uzoraka, evidentiranje starja obnavljati pojedinačni ploča pokriva. Izvršiti čišćenje i pripremu za ponovnu ugradnju zidanih i oduvanih postojećih ploča eternita te nadavka novih nedostajućih eternit ploča po uzoru na postojeće. Sav otpadni i neupotrebivi materijal transportovati na deponiju. Stare ploče pripremiti za ponovnu ugradnju 10%-20, a nove ploče 80-90%. Obracun po m ² ortogonalne projekcije.		m ²		215.00	
	ENG		Careful removal of roofing slabs, storage on site, taking samples and evaluating the damages present on the slabs. Perform detailed cleaning of the existing slabs, those deemed as usable prepare for installation, new ones procure based on the existing ones. All waste and unusable material is to be transported to the dump and/or recycling. Existing slabs to be reused 10-20% and the new slabs 80-90%. Cost per m ² of orthogonal projection					
	BH		Pažljivo demontirati fasadne obloge od eternit ploča na zapadnoj fasadi prizemlja, isti materijal kao i na krovu, te deponovanje materijala na gradilišnu deponiju. Sav otpadni i neupotrebivi materijal transportovati na deponiju ili reciklažu. Obracun po m ² .		m ²		79.00	
	ENG		Careful removal of the facade eternit covering on the west facing facade, made from the same material as the roofing slabs and storage of the material on site. All waste and unusable material is to be transported to the dump and/or recycling. Cost per square meter.					
			UKUPNO / TOTAL					€
			FASADERSKI RADOVI I RESTAVRATORSKI RADOVI / FACADE WORKS I RESTORATION WORKS					
	BH		Sancija i restauracija fasadnog dekorativnog elementa na zebatnom zidu južne fasade u formi pauza. Evidentirati oštećenja, izvršiti temeljno čišćenje neagresivnim sredstvima za čišćenje te upotrebom adekvatnim metoda i odobrenih materijala izvršiti radove sanacije i restauracije. Sve radove raditi prema uputstvima elaborata te u koordinaciji sa projektantom. Obracun po komadu.		komad / piece		1.00	
	ENG		Restoration of the facade decorative elements located on the gabled wall on the south facing facade in the form a pause. Inspect and evaluate the damage to the element, perform detailed cleaning using nonaggressive cleaning agents and using appropriate methods with approved materials do the restoration works. All works are to be done in accordance with the instructions given in the report and in coordination with the main designer. Cost per unit.					
	BH		Sancija i restauracija fasadnih dekorativnih elemenata od terakote na zebatnom zidu istočne i sjeverne fasade. Evidentirati oštećenja, izvršiti temeljno čišćenje neagresivnim sredstvima za čišćenje te upotrebom adekvatnih metoda i odobrenih materijala izvršiti radove sanacije i restauracije. Sve radove raditi prema uputstvima elaborata te u koordinaciji sa projektantom. Obracun po komadu.		komad / piece		2.00	
	ENG		Restoration of the facade decorative elements made from terracotta located on the gabled wall on the east and north facing facade. Inspect and evaluate the damages to the elements, perform detailed cleaning using nonaggressive methods and using appropriate methods with approved materials do the restoration works. All works are to be done in accordance with the instruction given in the report and in coordination with the main designer. Cost per unit.					

BR./JR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOМЕНЕ / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
			<p>19.3</p> <p>1. Sav otpadni i neupotrebljivi materijal transportovati na deponiju.</p> <p>2. Padljivo otklanje završnih slojeva disperzivne boje sa gipsokirane fasade ručnim alatom.</p> <p>3. Otklanje gipsokirane površine fasade topkom vodom pod pritiskom.</p> <p>4. Padljivo otklanje svih rastreslih materijala fasade gdje je evidentna nemogućnost sanacije i restauracije. Otklanje izvršiti do zadržave opake, uz disanje luga do dubine 1-2cm. U poziciju uključiti i otklanje svih materijala neadekvatno aplikiranih u prethodnim intervencijama. Otklanje izvršiti mehanički upotrebom ručnih alata.</p> <p>5. Konsolidacija postojećih materijala adekvatnim materijalom i metodama.</p> <p>6. Injekcije adekvatnim materijalom pozicija gdje su postojeći materijali odvojeni od podloge.</p> <p>7. Sanacija pukotina adekvatnim materijalom koji svojim sastavom, granulacijom i vezivnim sredstvom odgovara postojećem materijalu.</p> <p>8. Ugradnja novih maltera na pozicije gdje su postojeći malteri uklonjeni. Koristiti samo maltere koji svojim strukturom, granulacijom i vezivnim sredstvom odgovaraju postojećim historijskim materijalima, a upotrebom modernih aditiva za maltere koordinirati sa federalnim uredom za spomenike.</p> <p>9. Ugradnja adekvatnog završnog sloja boje. Boja treba da je stabilna i postojana, UV otporna te kompatibilna sa podlogom na koju se nanosi.</p> <p>10. Otkradu po m².</p> <p>11. Procurement of material, transportation, and restoration works of facade plaster with materials that correspond as closely as possible to the existing ones with their composition, granulation and binding agent. All works are to be done in accordance with the instruction given in the report and in coordination with the main designer.</p>		m ²	535.00	1	535.00
	ENG		<p>1. Careful removal of all loose, held together plasters where the restoration is not possible. Removal is to be done to the main masonry wall, with cleaning of the joints to the depth of approx. 1-2cm. In the works is to be included removal of all plasters that were applied inappropriately or that are inadequate for the building facade, and were added in the past interventions. Removal is to be done mechanically using hand tools.</p> <p>2. Repair of the existing plasters using approved materials and appropriate methods.</p> <p>3. Injection of the appropriate materials on places where the original plaster has detached from the masonry wall surface.</p> <p>4. Repair of the cracks on the existing plaster using appropriate material that corresponds to the existing plaster in regards to the composition, granulation and the binding agent.</p> <p>5. Plastering the new plaster to the places where the existing one was removed. Use only plasters that correspond to the existing one in regards to the plaster composition, granulation and binding agent, the use of modern additives for plasters is to be coordinated with the federal office for monuments.</p> <p>6. Final painting of the facade surfaces using appropriate paints. Paint must be stable and long lasting, UV resistant and compatible with the surface to which it is applied to. Choice of color is to be coordinated with the main designer and the federal office for monuments.</p> <p>7. Cost per square meter.</p>					
	BH		<p>1. Nabravka materijala, transport, sanacija i restauracija svih elemenata prozorskih okvira, dekoracija i vjenčana materijalima koji najbliže korrespondiraju postojećoj strukturi maltera i/ili elemenata, svojim sastavom, granulacijom i vezivnim sredstvom. Svi radovi prema uputstvima elaborata te u koordinaciji sa projektantom.</p> <p>2. Padljivo otklanje završnih slojeva disperzivne boje.</p> <p>3. Otklanje elemenata fasade topkom vodom pod pritiskom.</p> <p>4. Otklanje svih rastreslih i oštećenih dijelova gdje je evidentna nemogućnost sanacije i restauracije, sve do stabilne podloge. Otklanje izvršiti mehanički upotrebom ručnih alata.</p> <p>5. Konsolidacija postojećih materijala adekvatnim materijalom i metodama.</p> <p>6. Sanacija pukotina adekvatnim materijalom koji svojim sastavom, granulacijom i vezivnim sredstvom odgovara postojećem materijalu.</p> <p>7. Nedostajuce giplove nadonijesti normna izradom u kalupima izradom prema uzoru na postojeće.</p> <p>8. Ugradnja adekvatnog završnog sloja boje. Boja treba da je stabilna i postojana, UV otporna te kompatibilna sa podlogom na koju se nanosi.</p> <p>9. Otkradu po m¹.</p> <p>10. Procurement of material, transportation, and restoration works on all elements of the window frames, decoration and trims using materials that correspond as closely as possible to the existing ones with their composition, granulation and binding agent. All works are to be done in accordance with the instruction given in the report and in coordination with the federal office for monuments and OBA.</p>		m ¹	850.00	1	850.00
	ENG		<p>1. Careful removal of all finishes in the form of dispersion paints</p> <p>2. Cleaning of facade elements using warm water under pressure</p> <p>3. Careful removal of all loose parts that are separated from the wall surface or irreparably damaged. Removal to be done mechanically using hand tools.</p> <p>4. Binding the existing parts where needed and possible using appropriate materials and methods.</p> <p>5. Repair of all cracks using appropriate materials that correspond to the existing ones as closely as possible in regards to the material composition, granulation and the binding agent.</p> <p>6. Missing parts are to be reconstructed using molds made taken from the existing elements that are in good condition.</p> <p>7. Final painting of the elements. Used paint should be stable and long lasting, UV resistant and compatible with the surface that it's applied to.</p> <p>8. Cost per m¹.</p>					
			UKUPNO / TOTAL				€	38,750.00

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
20.			UNUTRAŠNJI MALTERI NA ZIDOVIMA I STROPOVIMA RESTAURATORSKI RADOVI / PLASTER ON INTERNAL WALLS AND CEILING RESTORATION WORKS					
	BIH	a.	Nabava materijala, transport, sanacija i restauracija postojećih maltera na unutrašnjim zidovima i stropovima site prema uputstvima elaborata te u koordinaciji sa projektantom. Sav otpadni i neupotrebljivi materijal transportovati na deponiju.					
			Otvakan po m ² .					
		b.	Pažljivo skidanje završnih slojeva disperzione boje sa zidovih maltera koji se zadržavaju kao i svih tipova aplikiranih na površine zidova. Skidanje izvršiti pažljivo, mehanički i ručnim alatom.					
		c.	Pažljivo otklanje svih rastresitih maltera na unutrašnjim zidovima i stropovima gdje je evidentna nemogućnost sanacije i restauracije. Otklanje izvršiti do zdrave opake, uz čišćenje luga između opake do dubine 1-2cm. U poziciji ukljčiti i otklanje svih maltera neodavno aplikiranih na unutrašnjim zidovima i stropovima. Otklanje izvršiti pažljivo mehanički upotrebom ručnih alata.					
		d.	Konsolidacija postojećih maltera koji se zadržavaju, materijalom koji najbolje korespondira postojećoj strukturi maltera svojim sastavom, granulacijom i vezivim sredstvom.					
		e.	Sanacija i reparacija svih strupnih dekaratiranih elemenata adekvatnim metodama i materijalom.					
	BIH	f.	Ugradnja novog maltera na pozicijama gdje su postojeći malteri uklonjeni kao i na pozicijama novih zidanih zidova. Koristiti samo maltere koji svojom strukturom, granulacijom i vezivim sredstvom odgovaraju postojećim historijskim malterima, a upotrebom modernih aditiva za maltere zidova prizemlja gdje je visoka koncentracija kaplance vlage koordinirati sa projektantom.					
		g.	U koordinaciji sa vlasnikom i projektantom, nakon završenih radova na konsolidaciji maltera izvršiti prijedlog unutrašnjeg oslikavanja.					
		h.	Ugradnja adekvatnog završnog sloja boje. Boja treba da je stabilna i postojana. UV otporna te kompatibilna sa podlogom na koju se nanosi. Aplikiranje boje izvršiti ručno otkama ili viskovima. Otkam boje koordinirati sa projektantom nakon prezentiranih uzoraka boje.					
			Otvakan po m ² .		m ²		1.800,00	
20.1		a.	Procurement of material, transportation and restoration of the plasters on the existing internal walls that are to be kept as well as the existing internal ceilings, all works to be done in accordance with the directions from the report and in coordination with the main designer.					
		b.	All waste and unusable material is to be transported to the dump.					
		c.	Careful removal of all finishes and layers of the dispersion paint from the plasters in good state, as well as removal of any lacquer applied to the wall surface. Removal is to be done carefully, mechanically and with hand tools.					
		d.	Careful removal of all loosely held together plaster material from internal walls and ceilings where restoration and repairs are not possible. Removal is to be done to the masonry wall surface, and joints are to be cleared to the depth of approx. 1-2cm. In the works is to be included removal of all plaster that were inadequately applied to the walls and ceilings in the interior of the building during the previous interventions. Removal is to be done mechanically using hand tools.					
		e.	Repair of the existing plasters which are to be retained, using appropriate materials that correspond to the existing plaster as much as possible in regards to the composition, granulaton and the binding agent.					
		f.	Repair of the existing cornices and ceiling decorations is to be done using appropriate methods and materials.					
	ENG	g.	Repair of the existing cornices and ceiling decorations is to be done using appropriate methods and materials. Placement of new plaster to the places where the existing ones were removed as well as places where the existing openings were walked off. Use only plasters that correspond to the existing ones in regards to the composition, granulaton and binding agent, and the use of modern additives for plasters used in the ground floor where a high moisture is present in the walls is to be coordinated with the main designer.					
		h.	In coordination with the owner's representative and the main designer, after the repair works are finished make a proposal for the painting of the internal walls. Final painting of the internal walls using appropriate paints. Paint must be stable, long lasting, UV resistant and compatible with the surface to which it is applied to. Painting works are to be done by hand, using brushes. Choice of color to be coordinated with the main designer after samples are presented.					
			Cost per square meter.					
			UKUPNO / TOTAL				€	
21.			METALNI ELEMENTI - INSIDE RESTAURATORSKI RADOVI / METAL ELEMENTS - INSIDE RESTORATION WORKS					
	BIH		Pažljiva demontaža svih metalnih zaštitnih rešetki, koje se nalaze na postojećem prozornom ili vratima, evidencirati pozicije, deponovati ih na gradilištu te transportovati u radionicu za radove sanacije i restauracije. Nakon završenih radova sanacije i restauracije, pripremiti ih za ponovnu ugradnju na pripadajuće pozicije. Izvršiti temeljito čišćenje pozicija, reparaciju oštećenja, skidanje hrđe te antioksidativnu zaštitu i finalno bojenje pozicija. Sve radove na poziciji raditi adekvatnim materijalima i metodama, sve u koordinaciji sa konzervatorom i projektantom. Sav otpadni i neupotrebljivi materijal transportovati na deponiju ili rečiklažu. Otvakan po komadu.					
21.1	ENG		Careful removal of all metal bars from existing windows or doors, marking of positions, storage on site and transportation to the workshop for cleaning and restoration. After the restoration works, return them to the corresponding positions. Perform detailed cleaning, repair of damaged parts, removal of oxidation, applying anti-rust coating and final painting of the elements. All works to be done with appropriate materials and methods, all in coordination with the conservator and the main designer. All waste and unusable material is to be transported to the dump and/or recycling.					
			Cost per unit.		komad / piece		41,00	

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
			Sanacija i restauracija vitraža u svjetlojstvu centralnog unutrašnjeg hola. Uklanjanje oštećenja te temeljito čišćenje čitavog okvira neposrednim sredstvima za čišćenje, sklapanje i rida, provesti adekvatnu njegu antikorozivne zaštite čeličnog okvira. Čišćenje elemenata od stakla te neophodne popravke mehaničkim otvaranjem prozora u uglovnima vitraža. Sve radove izvoditi u koordinaciji sa projektantom i konzervatorom. Ovrakom po m2.		m2	15,00		
21.2	ENG		Restoration of the stained-glass window in the skylight of the central hall. Estimation of the present damages, detailed cleaning of the frame using non-aggressive solutions, removal of oxidation, applying anti-rust coating, cleaning of glass elements and perform the needed repairs of the opening mechanisms for the corner parts. All works to be done in coordination with the main designer and the conservator. Cost per m2.					
			Pazljivo demontirati metalnih rukohvata na sponednom unutrašnjem stepeništu, deponovanje na gradilištu te nakon sanacije i restauracije elementa priprema za ponovnu ugradnju. Sve oštećene i neopravljive elemente zamijeniti po uzoru na postojeće. Ovrakom po m1.		m1	7,00		
21.3	ENG		Careful removal of metal handrails located on the side internal staircase, storage on site and after restoration works prepare them for return on the corresponding position. All damaged and unrepairable parts to be replaced with new ones made on example to the existing ones. Cost per m1.					
			Pazljivo demontirati svih postojećih unutrašnjih rasvjetnih tijela od metala. Iustera i sl. te njihovo deponovanje na gradilištu. Nakon pocijene stanja njihove očuvanosti predvidjeti ih za sanaciju i restauraciju te ponovnu ugradnju, u suprotnome odvoz na deponiju ili reciklažu. Ovrakom paušalno. Cijeni ukloniti i instalirati, otkrenuti i transportirati ih na deponiju ili reciklažu. Approximate pricing.		paušalno / approx.	1,00	€	
21.4	ENG		Careful removal of all existing internal light fixtures (hanging lights, etc.) and storage on site. After estimation of the damage prepare some for restoration and installation, otherwise transport them to the dump and/or recycling. Approximate pricing.					
			UKUPNO / TOTAL				€	
22			STOLARILJA - UNUTRAŠNJA - ZAMJENA POSTOJEĆE IZBADA NOVE I RESTAURATORSKI RADOVI / CARPENTRY - INSIDE - REPLACEMENT OF EXISTING AND MAKING THE NEW RESTORATION WORKS					
			Sanacija i restauracija postojećih drvene ograde i drvenog stepeništa u centralnom hodu. Postojeću ogradu potpuno je demontirati, evidentirati pozicije, temeljito očistiti, reparirati oštećenja, adekvatnim metodama zaštiti te linarno lakirati i pripremiti za ponovnu montazu na pripadajuće pozicije. Postojeće drvene stepenice sa konstrukcijom temeljito očistiti, sanirati oštećenja te adekvatnim metodama zaštiti i lakirati. Sve nedostajuće ili oštećene i neopravljive elemente rekonstruirati po uzoru na postojeće te montirati na pripadajuće pozicije. Saw otpadni i neupotrebljivi materijal transportovati na deponiju /ili reciklažu. Ovrakom po m1.		m1	14,50		
22.1	ENG		Restoration of the existing wooden balustrade and stairs in the central hall. Existing fence is to be carefully dismantled, position of the individual parts marked, detailed cleaned, damaged parts repaired, using appropriate methods protected, finally lacquered than returned and installed to the corresponding position. Existing stairs with the supports are to be thoroughly cleaned, damages repaired and using appropriate methods protected and finally lacquered. All missing and unrepairable parts are to be reconstructed in example to the existing ones and installed to the corresponding position. All waste and unusable material is to be transported to the dump and/or recycling. Cost per m1.					

Prizliva demontaža postoljnih unutrašnjih vrata koja se planiraju za sjeklinu saradnju i restauraciju ili potpunu zamjenu izradom novih pozicija po uzoru na postojeće je prema odobrenim radničkim nacrtima. Pripadajuće sitovke i lagira ostati, sarnati sva evidentirana oštećenja te izvesti sve ostale potrebne restauratorsko-konzervatorske radove in-situ. Kao i inače bojenje sitovka i dekorativni lagiri gdje je to moguće na pozicijama koje se zadržavaju. U sklopu pozicije uradunati sljedeće i reparaciju svih otvarajućih mehanizama pozicije ako je moguće zadržavati postojeće pozicije, u suprotnome nabaviti i ugraditi nove mehanizme, sve po uzoru na postojeće. U sklopu pozicije uradunati i izradu i ugradnju novih dekorativnih lagira na pozicijama gdje su postojeće lagire neodgovarajuće, oštećene ili nedostavne. Restituirane elemente ponovo montirati na pripadajuće pozicije. Izbor novih unificiranih otvarajućih elemenata koordinirati sa nadzornim organom i projektantom.

Na svim pozicijama gdje nije moguće zadržati postojeću poziciju izraditi novu poziciju po uzoru na postojeću i prema odobrenim radničkim nacrtima.

Novo pozicije izradene od hrastovine prve klase, bijelane i bojene u ton prema izboru projektanta, ENO natlak.

Svaklo na ostalijem i polustaklijem unutrašnjim pozicijama prema grafickim shemama, debljine 4mm, a na vanjskim pozicijama ISO 4+8-4mm LWF-4, u svemu prema odobrenim radničkim nacrtima.

Sav otpadni materijal transportovati na deponiju lifi reolckazu.

Okradun po komadu.

BIH

ENG

Careful removal of existing internal wooden door's that are planned for partial repair and restoration, or replacement with new ones, made by example of the existing ones and in accordance with the approved shop drawings. Door frames and battens are to be cleaned, all damages repaired, perform all needed restoration works on site as well as final painting of the frames and battens where possible on the elements that are to be reused. In the works are to be included all works on the cleaning and repair of the opening mechanisms if the existing one are to be reused otherwise get new mechanisms, by example on the existing ones. In the works include the making and installation of the new battens made in example to the existing original ones, where the existing original ones were removed, unrepairable or of inadequate design. Restore elements are to be placed in the corresponding positions. Choice of the new opening mechanisms is to be coordinated with the construction supervisor and the main designer.

On all positions where existing elements are to be replaced, new positions are to be made by example on existing ones and in accordance with the approved shop drawings.

New elements are to be made from oak, first class, painted wit all appropriate layers and in color as per main designers choice.

Glass used on internal positions is 4mm thick and for external positions are 4+8+4 ISO glass, all according to the approved shop drawings.

All waste and unusable material is to be transported to the dump and/or recycling.

Cost per unit.

T-1.1	Dvookrilna polustaklijena vrata sa luknim dvookrilni nadsvjetlom / Double two leaf door with arched two leaf toplight DIM. 140 x 315	komad / piece	1,00		
T-1.2	Dvookrilna polustaklijena vrata sa luknim dvookrilni nadsvjetlom / Double two leaf door with arched two leaf toplight DIM. 140 x 315	komad / piece	1,00	2	
T-1.3	Dvookrilna polustaklijena vrata sa luknim dvookrilni nadsvjetlom / Double two leaf door with arched two leaf toplight DIM. 120 x 315	komad / piece	1,00		
T-1.5	Dvookrilna polustaklijena vrata / Double door - half glazed DIM. 140 x 300	komad / piece	1,00		
T-1.6	Lučna dvookrilna polustaklijena vrata / Arched double door - half glazed DIM. 135 x 275	komad / piece	1,00		
T-1.7	Lučna dvookrilna polustaklijena vrata / Arched double door - half glazed DIM. 135 x 275	komad / piece	1,00		
T-2.1	Jednookrilna ulazna vrata / Single entry door DIM. 120 x 295	komad / piece	1,00		
T-2.2	Jednookrilna vrata / Single door DIM. 100 x 215	komad / piece	1,00		
T-2.3	Jednookrilna vrata / Single door DIM. 100 x 215	komad / piece	1,00		
T-2.4	Jednookrilna vrata sa nadsvjetlom / Single door with toplight DIM. 100 x 280	komad / piece	1,00		
T-2.5	Jednookrilna vrata / Single door DIM. 105 x 215	komad / piece	1,00	4	
T-2.6	Jednookrilna vrata / Single door DIM. 100 x 215	komad / piece	1,00		
T-2.7	Jednookrilna vrata / Single door DIM. 80 x 215	komad / piece	1,00		
T-2.8	Jednookrilna vrata / Single door DIM. 50 x 215	komad / piece	1,00	1	
T-2.9	Jednookrilna vrata / Single door DIM. 80 x 205	komad / piece	1,00		
T-2.10	Jednookrilna produžetna vrata / Single fire proof door DIM. 95 x 200	komad / piece	1,00		
T-2.11	Jednookrilna vrata / Single door DIM. 85 x 215	komad / piece	1,00		
T-2.12	Jednookrilna vrata / Single door DIM. 50 x 215	komad / piece	1,00		

RB./NR.	LANG.	POZ.	ORIS / DESCRIPTION	NAPOMENE / NOTES	MJ./JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
T-2.13			Jednokrilna vrata / Single door DIM. 100 x 215		komad / piece	1,00		
T-2.14			Jednokrila vrata / Single door DIM. 100 x 215		komad / piece	1,00	1.	
T-2.15			Decorativni ram / Decorative door frame DIM. 120 x 215		komad / piece	1,00		
T-2.16			Decorativni ram / Decorative door frame DIM. 120 x 215		komad / piece	1,00	1.	
T-2.17			Jednokrila vrata / Single door DIM. 90 x 215		komad / piece	1,00		
T-2.18			Jednokrila vrata / Single door DIM. 90 x 215		komad / piece	1,00		
T-2.19			Decorativni ram / Decorative door frame DIM. 300 x 290		komad / piece	1,00		
T-2.20			Decorativni ram / Decorative door frame DIM. 120 x 255		komad / piece	1,00		
T-2.21			Decorativni ram / Decorative door frame DIM. 135 x 255		komad / piece	1,00		
T-3.2			Jednokrila metalna vrata sa rešetkom / Single metal door with mesh DIM. 100 x 150		komad / piece	1,00		
T-3.4			Decorativni ram / Decorative door frame DIM. 105 x 215		komad / piece	1,00		
BH			<p>Pažljiva demontaža postojećih drvenih prozora koji se planiraju za daljnju sanaciju i restauraciju ili popunju zamjenu, izrada novih pozicija po uzoru na postojeće te prema određenim radničkim nacrtima. Pripadajuća štokove i laptve očistiti, sanirati oštećenja te izvesti sve ostale restauratorske radnje nashu, kao i finalno bojenje na pozicijama koje se zadržavaju. U skladu pozicije urađivati: čišćenje i reparaciju svih otvarajućih mehanizama pozicije ako je moguće zadržavajući postojeće pozicije, u suprotnome nabaviti i ugraditi nove mehanizme, sve po uzoru na postojeće. Izbor novih univerzalnih otvarajućih demontaža koordinirati sa nadzorom organom i projektantom. Nove pozicije izraditi od hrastovine prve klase, balcane i bojene u ton prema izdoru projekanta, EKO malik.</p> <p>Svaklo na ostakljenim i polustakljenim unutarnjim pozicijama preuzeti grafičkim shemama, debljine 4mm, a na vanjskim pozicijama ISO 4-8-4mm LOW-4, u svemu prema odobrenim radničkim nacrtima.</p> <p>Varijantu zaštite od sunca tražiti po uzoru na postojeću, a unutarnja kila restaurirati u suprotnom zamjeniti novima izrađenim po uzoru na postojeće.</p> <p>Sav otpadni materijal transportovati na deponiju i/ili reciklažu. Održati po komadu.</p>					
ENG			<p>Careful removal of existing wooden window leafs that are marked for partial repair and restoration, or replacement with new ones made by example of the existing ones and in accordance with the approved shop drawings. Window frames and battens are to be cleaned, damages repaired and all needed restoration works performed in site as well as final painting. In the works are to be included all works on the cleaning and repair of the opening mechanisms if the existing ones are to be used otherwise get new mechanisms, by example on the existing ones. Choice of the new opening mechanisms is to be coordinated with the construction supervisor and the main designer.</p> <p>On all positions where existing elements are to be replaced, new positions are to be made by example on existing ones and in accordance with the approved shop drawings.</p> <p>New elements are to be made from oak, first class, painted with all appropriate layers and in color as per main designers choice.</p> <p>Glass used on internal positions is 4mm thick and for external positions are 4-8-4 ISO glass, all according to the approved shop drawings.</p> <p>All waste and unusable material is to be transported to the dump and/or recycling.</p> <p>Cost per unit.</p>					
F-1.1			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 230		komad / piece	1,00		
F-1.2			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 250		komad / piece	1,00		
F-1.3			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 250		komad / piece	1,00		
F-1.4			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 250		komad / piece	1,00		
F-1.5			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 230		komad / piece	1,00		
F-1.6			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 250		komad / piece	1,00		
F-1.7			Dvostruki dvokrilni prozor sa dvokrilnim lučnim nadsvjetlom / Double two leaf window with arched two leaf toplight DIM. 120 x 250		komad / piece	1,00		
F-2.1			Dvostruki dvokrilni prozor sa dvokrilnim nadsvjetlom / Double two leaf window with two leaf toplight DIM. 120 x 230		komad / piece	1,00		

REQ./NR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOМЕНЕ / NOTES	MAJED. / UNIT	KOLICHA / AMOUNT	CJENKA / UNIT PRICE	UKUPNO / TOTAL
F-9.8			Dvostruki jednokrtni prozor sa jednokrtnim nadsvejlom / Double single leaf window with single leaf toplight DIM: 70 x 210		komad / piece	1,00		
F-9.9			Dvostruki jednokrtni prozor sa jednokrtnim nadsvejlom / Double single leaf window with single leaf toplight DIM: 70 x 210		komad / piece	1,00	1	
F-9.10			Dvostruki jednokrtni prozor sa jednokrtnim nadsvejlom / Double single leaf window with single leaf toplight DIM: 70 x 210		komad / piece	1,00	:	
F-10.1			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00	1	
F-10.2			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.3			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.4			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00	1	
F-10.5			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.6			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.7			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.8			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.9			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-10.10			Dvostruki dvookrtni prozor / Double two leaf window DIM: 90 x 145		komad / piece	1,00		
F-11.1			Jednostruki fiksni prozor / Single fixed window DIM: 50x 60		komad / piece	1,00		
F-11.2			Jednostruki fiksni prozor / Single fixed window DIM: 50x 60		komad / piece	1,00		
F-12.1			Jednostruki fiksni prozor / Single fixed window DIM: 45x 80		komad / piece	1,00		
F-13			Krovni prozor / Roof window DIM: 90 x 145		komad / piece	2,00		
F-14			Stiplanik / Skylight DIM: 40 x 60		komad / piece	1,00		
UKUPNO / TOTAL								€

BR.NR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOМЕНЕ / NOTES	MJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
23.			STOLARIJA - UNUTRAŠNJA - NOVE POZICJE / CARPENTRY - INSIDE - NEW ELEMENTS					
	BH		<p>Prema uzoru na postojeće stolarske pozicije unutrašnjih vrata i prema shemama skladnje iz projekta, izvršiti izradu radioničkih nacrti novih stolarskih pozicija vrata te nakon saglasnosti projektanta izraditi nova vrata, transportovati ih i ugraditi na pripadajuće pozicije prema grafičkim nacrtima. U sklopu stavke uključiti i izradu i ugradnju dekorativnih listova oko pozicije vrata, kao i svih elemenata otvarajućih mehanizama, sve po uzoru na originalne elemente. Radove na izradi obaviti u koordinaciji sa projektantom prema odobrenim radioničkim nacrtima.</p> <p>Novo pozicije izradene od hrastovine prve klase, bojcane u ton prema izboru projektanta, EKO malilak.</p> <p>Sve dimenzije uzeti i verificirati na licu mjesta.</p> <p>Otvoriti po komadu.</p>					
	ENG		<p>By example of the existing internal doors, prepare the shop drawing for the new door positions, send them for approval to the main designer and the federal office for monuments, produce the doors, transport them, and install them to the corresponding positions, all according to the architectural drawings. In the works are to be included all works related to the decorative battens as well as all works related to the opening mechanisms, all done by example to the existing ones.</p> <p>New elements are to be made from oak, first class, painted w/ all appropriate layers and in color as per main designers choice.</p> <p>All works to be done in coordination with the main designer and by according to the approved shop drawings. All measurements are to be taken and confirmed on site.</p> <p>Cost per unit.</p>					
		23.1	<p>T-1.8 Dvostrana vrata / Double door DM 150 x 215</p> <p>T-1.9 Dvostrana vrata / Double door DM 150 x 215</p> <p>T-3.1 Jednostrana vrata / Single door DM 100 x 215</p> <p>T-3.3 Jednostrana vrata / Single door DM 100 x 215</p> <p>T-4.1 Jednostrana vrata / Single door DM 100 x 215</p> <p>T-4.2 Jednostrana vrata / Single door DM 80 x 215</p> <p>T-4.3 Jednostrana vrata / Single door DM 90 x 215</p> <p>T-5.1 Sklopna vrata / Folding door DM 300 x 280</p> <p>T-5.2 Sklopna vrata / Folding door DM 330 x 280</p> <p>T-6.1 Jednostrana vrata - medijapan / Single door - medijapan DM 80 x 200</p> <p>T-6.2 Jednostrana vrata - medijapan / Single door - medijapan DM 80 x 150</p>		komad / piece	1,00 1,00 1,00 1,00 2,00 4,00 2,00 1,00 1,00 1,00 2,00 3,00	€	1
	BH		<p>Prema uzoru na postojeće stolarske pozicije vanjskih prozora i prema shemama skladnje iz projekta, izvršiti izradu radioničkih nacrti novih stolarskih pozicija prozora te nakon saglasnosti izraditi nove prozore, transportovati ih i ugraditi na pripadajuće pozicije prema grafičkim nacrtima. U sklopu stavke uključiti i izradu i ugradnju dekorativnih listova oko pozicija prozora, kao i svih izradu i ugradnju svih elemenata otvarajućih mehanizama, sve po uzoru na originalne elemente. Radove na izradi obaviti u koordinaciji projektantom.</p> <p>Novo pozicije izradene od hrastovine prve klase, bojcane i bojene u ton prema izboru projektanta, EKO malilak.</p> <p>Staklo na ostakljenim i poluostakljenim unutrašnjim pozicijama prema grafičkim shemama, debljine 4mm, a na vanjskim pozicijama ISO 4-8-4mm LOW-E u svemu prema odobrenim radioničkim nacrtima.</p> <p>Sve dimenzije uzeti i verificirati na licu mjesta.</p> <p>Otvoriti po komadu.</p>					
	ENG		<p>By example to the existing state of the external windows and following the woodworking schedule, prepare the shop drawings for them and after approval from the main designer and the federal office for monuments produce, transport and install them to the corresponding positions all in accordance to the architectural drawings. In the works are to be included all works related to the decorative battens around the window opening, as well as all opening mechanism of the new windows, all by example to the existing ones. All works to be done in coordination with the main designer.</p> <p>New elements are to be made from oak, first class, painted with all appropriate layers and in color as per main designers choice.</p> <p>Glass used on internal positions is 4mm thick and for external positions are 4-8-4 ISO glass, all according to the approved shop drawings.</p> <p>All measurements are to be taken and confirmed on site.</p> <p>Cost per unit.</p>					
		23.2	<p>F-2.4 Dvostruki dvostrani prozor sa dvostrukim nadvisjivom / Double two leaf window with two leaf toplight DM 120 x 230</p> <p>F-2.7 Dvostruki dvostrani prozor sa dvostrukim nadvisjivom / Double two leaf window with two leaf toplight DM 120 x 230</p> <p>F-6.8 Dvostruki dvostrani prozor sa dvostrukim nadvisjivom / Double two leaf window with two leaf toplight DM 120 x 210</p>		komad / piece	1,00 1,00 1,00	€	1

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL	
	BH		Prva uzor na postojeće staklene pozicije prozora i vrata zatvorene terase na prizemnoj etaži izraditi radioničke nacrti te nakon saglasnosti projektanta i federalnog uređa za spomenike izraditi nove prozore i vrata, transportovati ih i ugraditi na pripadajuće pozicije prema grafičkim nacrtima. U sklopu stavke uključiti izradu i ugradnju svih elemenata otvarajućih mehanizama, sve po uzoru na originalne elemente. Radove na zradi obaviti u koordinaciji sa projektantom. Nove pozicije izradene od historijske prve klase, bicorne i bojene i bojene i bojene u ton prema izboru projektanta, ENO matlak. Staklo na ostakljenim i poluostakljenim unutrašnjim pozicijama prema grafičkim shemama, debljine 4mm, a na vanjskim pozicijama ISO 4+4-4mm LOW-e, u svemu prema odobrenim radioničkim nacrtima. Sve dimenzije uzeti i verificirati na licu mjesta. Otvraditi po komadu.						
	ENG		By example to the existing windows and doors on the enclosed patio on the ground floor, prepare shop drawings, after approval from the main designer and the federal office for monuments produce the new windows and doors, transport and install them to the corresponding positions all according to the architectural drawings. In the work are to be included all opening mechanisms, all in accordance with the existing original elements. All works are to be done in coordination with the main designer. New elements are to be made from oak, first class, painted with all appropriate layers and in color as per main designer's choice. Glass used on internal positions is 4mm thick and for external positions are 4+4-4 ISO glass, all according to the approved shop drawings. All measurements are to be taken and confirmed on site. Cost per unit.						
23.3	ENG								
		1-1.4	Dvostruka vrata / Double door DM 180 x 320		komad / piece	1,00		0	
		F-7.1	Dvostruki dvoklini prozor sa nadstavljenom / Double two leaf window with fixed toplight DM 155 x 235		komad / piece	1,00			
		F-7.2	Dvostruki dvoklini prozor sa nadstavljenom / Double two leaf window with fixed toplight DM 155 x 235		komad / piece	1,00			
		F-7.3	Dvostruki dvoklini prozor sa nadstavljenom / Double two leaf window with fixed toplight DM 155 x 235		komad / piece	1,00			
		F-7.4	Dvostruki dvoklini prozor sa nadstavljenom / Double two leaf window with fixed toplight DM 155 x 235		komad / piece	1,00		1	
		F-8.1	Dvostruki dvoklini prozor sa nadstavljenom / Double two leaf window with fixed toplight DM 185 x 235		komad / piece	1,00		0	
		F-8.2	Dvostruki dvoklini prozor sa nadstavljenom / Double two leaf window with fixed toplight DM 185 x 235		komad / piece	1,00		1	
	BH		Nabavka materijala izrada, transport i ugradnja obložnih elemenata za pozicije parapetnih radijatora sa uključivim unutrašnjim ključicama prozora. Pozicija je opremljena metalnom rešetkom i sitnom celicom mrežom kao maskom otvora. Prema shemi iz grafičkih nacrti izraditi radioničke nacrti i dostaviti na odobrenje projektanta. Sve dimenzije uzeti i verificirati na licu mjesta. Otvraditi po komadu.						
	ENG		Procurement of material, making, transportation and installation of the covering elements for the heating devices placed in front of the window parapets, with the included windows internal boards. The covering element has an integrated metal grill and a fine mesh. According to the architectural drawings prepare the shop drawings and send them to the main designer for approval. All measurements are to be taken and confirmed on site. Cost per unit.						
23.4	ENG								
		S-1.1	DM 152 x 75		komad / piece	5,00			
		S-1.2	DM 152 x 75		komad / piece	7,00			
		S-1.3	DM 152 x 85		komad / piece	6,00			
		S-1.4	DM 314 x 85		komad / piece	1,00		5	
	BH		Nabavka materijala izrada, transport i ugradnja obložnih elemenata za pozicije parapetnih radijatora sa uključivim unutrašnjim ključicama prozora. Pozicija je opremljena metalnom rešetkom i sitnom celicom mrežom kao maskom otvora. Prema shemi iz grafičkih nacrti izraditi radioničke nacrti i dostaviti na odobrenje projektanta. Sve dimenzije uzeti i verificirati na licu mjesta. Otvraditi po komadu.						
	ENG		Procurement of material, making, transportation and installation of the covering elements for the heating devices placed in front of the window parapets, with the included windows internal boards. The covering element has an integrated metal grill and a fine mesh. According to the architectural drawings prepare the shop drawings and send them to the main designer for approval. All measurements are to be taken and confirmed on site. Cost per unit.						
23.5	ENG								
		S-3.1	DM 580 x 75		komad / piece	1,00			
		S-3.2	DM 580 x 75		komad / piece	1,00		2	
		S-3.3	DM 510 x 85		komad / piece	1,00			
		S-3.4	DM 510 x 85		komad / piece	1,00			
		S-4.1	DM 340 x 85		komad / piece	1,00			
		S-4.2	DM 340 x 85		komad / piece	1,00		1	

RB.NR.	LANG.	POZ.	OPIS DESCRIPTION	NAPOМЕНЕ / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
	BH		Nabavka materijala, izrada, transport i ugradnja slobodnostojećih obložnih elemenata za radijatore. Pozicija je opremljena metalnom rešetkom i sitnom delicom mrežom kao niskom ovcra. Prema shemi iz grafičkih nacrti izradi radioničke nacrt i dostavi ih na odobrenje projektanta. Sve dimenzije uzeti i verifikati na licu mesta. Obradu po komadu.					
	ENG		Procurement of material making, transportation and installation of freestanding covering elements for the heating devices. The covering element has an honey acid metal grill and a fine mesh. According to the architectural drawings prepare the shop drawings and send them to the main designer for approval. All measurements are to be taken and confirmed on site. Cost per unit. DKM: 150 x 87		komad / piece	3.00	€	
	BH		Nabavka materijala, izrada i transport elementa primarne kuhinje na etaz prvoga sprata. U cijenu pozicije uključiti sve elemente stolarije i potrebne uređaje, u svemu prema grafičkim nacrtima. Izraditi radioničke nacrt i usaglasiti sa projektantom. Obradu po m ² .		m ²	2.40	€	
	ENG		Procurement of material, making, transportation and installation of the kitchen elements on the first floor. In the price of the works are to be included all elements as well as all of the electrical devices, all according to the architectural drawings. Making of the shop drawings is to be coordinated with the main designer. Cost per m ² .				€	
			UKUPNO / TOTAL				€	
			HORTIKULTURA / LANDSCAPING					
	BH		Nabavka i ugradnja niskog rastinja i bilja sve prema planu vanjskog uređenja i hortikulture, sve u koordinaciji sa vlasnikom i projektantom. Obradu paušalno.		paušalno / approx.	1.00	€	
	ENG		Procurement, transportation and placement of low-height greenery and flowers according to the architectural drawings for landscaping, all works in coordination with the owner and the main designer. Approximate pricing.				€	
			UKUPNO / TOTAL				€	
			RAZNI RADNOVI / MISCELLANEOUS WORKS					
	BH		Nabavka i ugradnja uređaja za regulaciju kaplarnne vlage u zidovima, sve prema specifikaciji i uputstvima proizvođača odabranog uređaja. Obradu po komadu.		komad / piece	1.00	€	
	ENG		Procurement and installation of the electrical device for regulation of moisture in the walls, all by the specification and directions given by the chosen device manufacturer. Cost per unit.				€	
	BH		Otklanjanje lokacije nakon završenih radova, te odvoz svog otpadnog materijala na deponiju. Obradu paušalno.		paušalno / approx.	1.00	€	
	ENG		Final cleaning and removal of all waste material from the site, after the completion of the restoration works. Approximate pricing.				€	
	BH		Izrada projekta izvedbnog stanja sa foto dokumentacijom, te predaja vlasniku objekta. Obradu paušalno.		paušalno / approx.	1.00	€	
	ENG		Preparation of the project for the final state of the building after all the restoration works are completed, and delivering the documentation to the owner. Approximate pricing.				€	
			UKUPNO / TOTAL				€	

RB./NR.

GRUPA RADOVA / WORKS DESCRIPTION

UKUPNO / TOTAL

1.	PRIPREMNI RADOVI / PREPARATORY WORKS	€	0
2.	DEMONTAŽE I RUŠENJA - UNUTRA / DISMANTLING AND DEMOLITION WORKS - INSIDE	€	
3.	DEMONTAŽE I RUŠENJA - VANI / DISMANTLING AND DEMOLITION WORKS - OUTSIDE	€	
4.	ZEMLJANI RADOVI / EARTH WORKS	€	
5.	BETONSKI RADOVI / CONCRETE WORKS	€	3
6.	ZIDARSKI RADOVI / MASONRY WORKS	€	2
7.	HIDROIZOLACIONI RADOVI / WATERPROOFING WORKS	€	
8.	GIPS-KARTONSKI RADOVI / PLASTERBOARD WORKS	€	
9.	TERMO-AKUSTIČNO-IZOLACIONI RADOVI / THERMAL AND SOUNDPROOFING WORKS	€	
10.	PODOPOLAČAKI RADOVI / WOOD FLOORING WORKS	€	38
11.	KERAMIČARSKI I KAMENO-REZACKI RADOVI / CERAMIC TILING AND STONE TILING WORKS	€	
12.	RADOVI VANJSKOG POPLAČANJA / SITE TILING WORKS	€	4
13.	LIMARSKI RADOVI / SHEET METAL WORKS	€	
14.	MONTAŽERSKI RADOVI / ASSEMBLY WORKS	€	
15.	TESARSKI I STOLARSKI RADOVI - VANI / RESTAURATORSKI RADOVI / WOODWORKING - OUTSIDE RESTORATION WORKS	€	4
16.	BETONSKI ELEMENTI - VANI RESTAURATORSKI RADOVI / CONCRETE ELEMENTS - OUTSIDE RESTORATION WORKS	€	
17.	METALNI ELEMENTI - VANI RESTAURATORSKI RADOVI / METAL ELEMENTS - OUTSIDE RESTORATION WORKS	€	3
18.	KROVNI I FASADNI ETERNIT RESTAURATORSKI RADOVI / ROOF ANS FACADE ETERNITE RESTORATION WORKS	€	
19.	FASADERSKI RADOVI RESTAURATORSKI RADOVI / FACADE WORKS RESTORATION WORKS	€	1
20.	UNUTRAŠNJI MALTERI NA ZIDOVIMA I STROPOVIMA RESTAURATORSKI RADOVI / PLASTER ON INTERNAL WALLS AND CEILINGS RESTORATION WORKS	€	
21.	METALNI ELEMENTI - UNUTRA RESTAURATORSKI RADOVI / METAL ELEMENTS - INSIDE RESTORATION WORKS	€	1,
22.	STOLARIJA - UNUTRAŠNJA - ZAJEMNA POSTOJEĆE I ZRADA NOVE RESTAURATORSKI RADOVI / CARPENTRY - INSIDE - REPLACEMENT OF EXISTING AND MAKING THE NEW RESTORATION WORKS	€	
23.	STOLARIJA - UNUTRAŠNJA - NOVE POZICIE / CARPENTRY - INSIDE - NEW ELEMENTS	€	
24.	HORTIKULTURA / LANDSCAPING	€	
25.	RAZNI RADOVI / MISCELLANEOUS WORKS	€	
UKUPNO RADOVI ARHITEKTURE / TOTAL ARCHITECTURE WORKS		€	8
NEPREDVIĐENI RADOVI / UNACCOUNTED WORKS (8%)		€	
UKUPNO / TOTAL		€	1
PDV / VAT (20%)		€	
UKUPNO SA PDV / TOTAL WITH VAT		€	1

VODOVOD I KANALIZACIJA / PLUMBING
PREDMJEER I PREDRAČUN RADOVA / PRICED BOQ

| KNJIGA - BOOK | B8.2 |

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1. ZEMLJANI GRAĐEVINSKI RADOVI / EARTH AND CONSTRUCTION WORKS								
1.1	BH		Iskop zemlje III katlu rovu za podizanje cijevovoda sa razupitijem gdje za zahtijevaju geomehanski uslov: Ila. Iskopani materijal odlagati na daljinu do 3.0 m od ivice rova. Stavka obuhvata iskop za montažu nadzemnih hidranta: Iskop vrši ručno. U cijenu uzeto eventualno crpljenje vode do 10 l/sec.		m3		36.00	
	ENG		Earth excavation of the third category in a trench for laying pipelines with trench breaking where required by the geomechanical conditions of the soil. Dump the excavated material at a distance of up to 3.0 m from the edge of the trench. The item includes excavation for the installation of above-ground hydrants. Do the excavation manually. The price includes possible water pumping up to 10 l/sec.					
1.2	BH		Izrada posteljice rova u dva sloja. U cilju postizanja uzdužnog pada nagnije se nasipa donji ili temeljni sloj od pjesaka ili šljunka deb. 10 cm, valjane zrna do 32 mm sa obaveznom nabijanjem. Na temeljni sloj se potom od iskop materijala, uz lagano ručno nabijanje, nasipa izravnavajući sloj u kojemu cijev sama oblikuje ležište a debljina sloja zavisi od kula naljezanja cijevi (mm deb. 5 cm). Bodo zaspavanje se vrši istim materijalom sa obje strane cijevi sa laganim ručnim nabijanjem. Nakon toga se vrši liemensko zaspavanje 15 cm iznad temeljna cijevi.		m3		6.70	
	ENG		Making the bed of the trench in two layers. In order to achieve a longitudinal fall, the bottom or base layer of sand or gravel is first filled. thickness of 10 cm, gran size up to 32 mm with mandatory compacting. On top of the foundation layer, from the same material, with light manual tamping leveling backfill layer is done, in which the pipe itself forms the bed, and the thickness of the layer depends on the angle of the pipe (mm, thickness 5 cm). Lateral backfilling is done with the same material on both sides of the pipe with light manual tamping. After that, top backfilling is done 15 cm above the top of the pipe.					
1.3	BH		Zatrpavanje preostalog dijela rova sa zemljom iz siropca u slojevima od 30 cm sa obaveznom nabijanjem do potrebne zbijenosti. Mašinsko zbijanje vrši tek kad debljina nadsloja iznad cijevi iznosi min. 30 cm. Iz iskopca se moraju izbaciti kamenje i tvrdi predmeti.		m3		19.30	
	ENG		Backfilling the remaining part of the trench with earth from the excavation in layers of 30 cm with mandatory tamping to the required compaction. Machine compaction should only be done when the thickness of the layer above the pipe is minimum 30 cm. Stones and hard objects must be removed from the excavation.					
1.4	BH		Otkucavanje iskopanog materijala na deponiju udaljenu do 1km. U cijenu uradunat ulovac, transport, istovar i uvođenje deponije.		m3		13.90	
	ENG		Removal of excess excavated material to a landfill up to 1 km away. The price includes loading, transport, unloading and disposal of the landfill. Lossiness coefficient 1.3.					
1.5	BH		Nabavka, transport i ugradnja betona za vodotjerno otkro svjetle mjece 150*150, sa debljinom šipke min. 10 cm i sa svom potrebnom armaturom, otklon i vodotjernošću betonom marke C30. Nabavka i ugradnja potklopa na vodotjerno otkro. Sve prema uslovima nadležnog komunalnog društva i uz dogovor sa nadzornim/projektantom. Stavka obuhvata sve potrebne radnje do stavljanja otkra u funkciju.		kompcs		1.00	
	ENG		Procurement, transport and installation of concrete for water meter pits. Light measurements are 150*150, with a wall thickness of at least 10 cm and with all the necessary reinforcement, formwork and waterproof concrete grade C30. Procurement and installation of the cover on the water meter shaft. Everything according to the conditions of the competent utility company and with an agreement with the supervisor/designer. The item includes all the necessary actions until the water meter pit is put into operation.					1
1.6	BH		Probjiranje sokterog zida za izlaz cijevovoda hidrantske mreže iz objekta. Stavka obuhvata štampanje (buzenje) i uvođenje podloge za montažu cijevi i fittinga za hidrantsku mrežu od vodotjernog šahna do zidara iz objekta. Uvijek je potrebno betoniranje za zatvaranje otvora koji je napravljen obavezno hidrozlovali napravljenim produkti sanitarni sokleri zid, dovesti ga u prvobitno stanje.		kompcs		2.00	
	ENG		Breaking through the plinth wall for the exit of the hydrant network pipeline from the water meter pit to the exit from the building. If concreting the opening is necessary, it is mandatory to waterproof the made penetration and repair the plinth wall. Bring it back to its original state.					
UKUPNO / TOTAL								€

RD/ NR	LANG	POZ	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2			MONTAŽERSKI RADOVI ASSEMBLY WORKS					
	BH		Nabavka, transport, spuštanje u rov / montaža polietilenskih cijevi od polietilena visoke gustote (PE-HD). U cijevu urađeno i spajanje cijevi. Cijev se podlaže na pripremljenu podlogu od materijala debljine do 32 mm. Materijal mora biti rastresit, imati dobru sposobnost zbijanja i dovoljnu nosivost. Kod zbijenosti materijala na 95% od standardnog postupka po Proctoru, mora biti osigurana minimalna nosivost postelice od najmanje 4 N/mm ² . Podlaganje cijevi / zatrpavanje rova prema nacrtu ugrađenog profila.		m ¹	23,00		
	ENG		PE-HD DN25 PE-HD DN30 PE-HD DN90		m ¹ m ¹ m ¹	4,00 70,00		
	BH		Procurement, transport, lowering into the trench and installation of polyethylene pipes made of high-density polyethylene (PE-HD). Pipe connection included in the price. Pipes are laid on a prepared base made of material with a thickness of up to 32 mm. The material must be loose, have good compaction ability and sufficient bearing capacity. When the material is compacted to 95% of the standard procedure according to Proctor, a minimum bearing capacity of at least 4 N/mm ² must be ensured. Laying pipes, making bedding and backfilling the trench according to the design of a reputable profile.					
	ENG							
2.2	BH		Nabavka i ugradnja vanjskog hidranta, nadzemni, lomljivi, antikorozivni, kao "Hawke" (Art. br.519) ili ekvivalent, prema DIN DIN 3222 sa DN/DVGW regist. br.: hidrant izrađen od kompletno nehrđajućih materijala, sa mogućnošću zakretanja 0-360°, automatski drenajni sistem sa regulacijskom spinka, veliki filting za drenazu od POM-a, sa jednim setom rezervnih šarafa za brzu popravku kod lomljenja hidranta, moguća zamjena sklopa ventila i drenaza, Flanšni priključak, lijevo i unutrašnji diovi hidranta od nehrđajućeg čelika 1.4571, hušterice špindla od mesinga, ventiliški umetak od mesing / elastomer, hidrantska glava od ojačanog ljevanog aluminija G-Al sa neobjepljujućom Sintrox plasticom zaštitom. Priključci od aluminija, Spindla i popon fiksne stope od nehrđajućeg čelika, brtve i dihuruzi od EPDM-a odobren za pitku vodu prema DVGW-KTW, DN 80, RD = 1.0 m, H = 1880 mm		kompleks	2,00		
	ENG		Procurement and installation of an external hydrant, above-ground, breakable, non-corrosive, as "Hawke" (Art. no. 519) or equivalent, according to DIN DIN 3222 with DIN-DVGW register no., hydrant made of completely stainless materials, with the possibility of rotation 0-360°, automatic drainage system with pressure regulation, large drainage filling made of POM, with one set of spare screws for quick repair in case of hydrant breakage, possible replacement of the valve assembly and drainage, Flange connection, hydrant body and internal parts of stainless steel 1.4571, spindle body of brass / elastomer, hydrant head of reinforced cast aluminum G-Al with non-whitening Sintrox plastic protection. Aluminum fittings, Spindle and fixed-rate drive made of stainless steel, seals and gaskets made of EPDM, approved for drinking water according to DVGW-KTW, DN 80, RD = 1.0 m, H = 1880 mm					
2.3	BH		Nabavka i ugradnja omaras sa opremom za nadzemni hidrant. Omarac se postavlja neposredno u blizini vanjskih hidranta. Sadržaj omaras: 2 komada tvornički cijevi fi 52mm, 2 mlatnica, 3 ključa za omarnički ključ za spojke ABC, ključ za spojke C).		kompleks	2,00		
	ENG		Procurement and installation of cabinets with equipment for an above ground hydrant. The cabinet is placed directly near the external hydrant. Contents of the cabinet: 2 pieces of fire hydrant hose fi 52mm, 2 nozzles, 3 keys for the cabinet (key for couplings ABC, key for couplings C).					
			UKUPNO / TOTAL					
3.			OSTALI RADOVI OTHER WORKS					
3.1	BH		Čišćenje i ispiranje izvedenog ojevoda hidrantske mreže nakon kompletno završenih radova.		komplet/set	2,00		
	ENG		Cleaning and flushing of the constructed pipeline of the hydrant network after the works have been completed.					
3.2	BH		Nabavka i ugradnja uređaja za podizanje pritiska u slučaju se uvrsti da je pritisak u gradskoj mreži niži od potrebnog.		komplet/set	1,00		
	ENG		Procurement and installation of a device to raise the pressure if it is determined that the pressure in the city water network is lower than necessary.					
			UKUPNO / TOTAL					
			REKAPITULACIJA / TOTAL					

3.1.2b UNUTRAŠNJA HIDRANTSKA MREŽA / INTERNAL HYDRANT NETWORK

RED. NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
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1. GRAĐEVINSKI RADOVI
CONSTRUCTION WORKS

1.1	BH		Postavljanje PVC cijevi za otvore u temeljnim gredama, stropovima i zidovima prosječne debljine 100 cm. Otvoriti po komadu postavljenoj otvora. prečnik 50 do 80 mm - hidrantska mreža		kompcs		4,00	
	ENG		Installation of PVC pipes for openings in foundation beams, ceilings and walls with an average thickness of 100 cm. Calculation per piece of installed opening. diameter 50 to 80 mm-hydrant network					

1.2	BH		Popunjavanje otvora u stropovima, temeljnim gredama i zidovima nakon završene montaže i ispitivanja vodovodnih cijevi betonom MB 20 sa postavljenim odgovarajućim oplatom i obradom površina nakon skidanja site.Otvoriti po komadu popunjenoj otvora prečnik 50 do 80 mm - hidrantska mreža		kompcs		4,00	
	ENG		Filling of openings in ceilings, foundation beams and walls after completion of installation and testing of water pipes with concrete MB 20 with installation of appropriate formwork and finish of surfaces after formwork removal. Calculation per piece of filled opening. diameter 50 to 80 mm-hydrant network					

1.3	BH		Stapanje ili šlicanje vertikalnih zidova za potrebe ugradnje vertikalna hidrantske mreže. Potrebno je da cijev instalirana sa izdasciom bude ugradena n način da se završni sloj fasade može nanući u ravlini sa ostalim zidom. Na mjestima koja ovdod projekant interijera. DN:50		m1		6,50	
	ENG		Wall cutting of vertical walls and slabs for the installation of hydrant vertical water pipes. It is necessary that the pipe installed with the insulation be installed in such a way that the final layer of the facade can be applied with the rest of the wall. In the places determined by the interior designer.					

1.4	BH		Krpanje šlicova nakon podizanja i ispitivanja instalacijske hidrantske om. Materiom. hidrantska mreža		m1		16,50	
	ENG		Patching of slits after laying and testing installations with cement mortar hydrant network					
			UKUPNO / TOTAL				€	

2	MONTAŽERSKI RADOVI ASSEMBLY WORKS							
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2.1	BH		Dobaviti, prijenos i ugradnja potpornih i tlačnih cijevi i fittinga za razvod instalacijske hidrantske mreže u objektu. Pričvršćenje cijevi vršiti poručio kući i obujmica na razinama od 2 m te kod svakog ogranka. Nije dopušteno savijanje cijevi. Cijevi izlratni izdasciom tip kao Armacel. Armatek ili jednako vrijedan. Instalacije koje prolaze kroz evakuacijske putove treba dodati izolacijski materijal u potpunosti koji je s vanjske strane ojačana aluminijumskom folijom, klasa A1 prema BAS DIN 4102 (tip kao Kraul Insulation, Tervol F-ALU R ili jednako vrijedan) odgovarajuće debljine. Profil cijevi označavaju unudarnji promjer iatih. Sve do popune funkcionalnosti. Otvoriti po m1. PC2 " - razvod unudarnje hidrantske mreže		m1		19,00	
	ENG		Procurement, transfer and installation of galvanized pressure pipes and fittings for distribution of hydrant network installations in the building. Fasten the pipes using hooks and clamps at intervals of 2 m and at each branch. It is not allowed to bend the pipe. Insulate pipes with insulation type such as Armacel, Armatek or equivalent. Installations passing through evacuation routes should be additionally insulated with stone wool reinforced on the outside with aluminum foil, class A1 according to BAS DIN 4102 (type like Kraul Insulation, Tervol F-ALU R or equivalent) of appropriate thickness. Pipe profiles indicate their inner diameter. Up to full functionality. Calculation per m1.					

RB/NR	LANG	POZ	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2.2	BIH		Nastava i ugradnja unutarnjeg hidrantskog ormara tipa Stropo servis ili jednako vrijedan. Veličina ormara je 500x500x140mm. U stavku je uključen ormar, vatrogasna cijev DN 25. U opjev je uključen nastavak, čevrna cijev DN 25mm dužine 15m, obremen nastavak Ms 2", ventil kuhi Ms 2", sa stabilnom spojnicom (Al) Ø52, tlačna spojnica Ø25, mlačna spojica Ø52 Al sa zasunom, redukc spojica Ø 52 s kosim gustom 25. Sva opremu kojom je opremljen ormaric mora imati odgovarajuću važanu atestu. Odbaciti po komadu kompletno montiranog i opremljenog hidranta sve do popune funkcionalnosti. Zanim hidranti, te pripadajuća oprema uz isti podređeno je predviđeni prema normi EN 671-1 ili EN 671-2.		kompos	2.00	1	€
	ENG		Procurement and installation of internal hydrant cabinet type Stropo servis or equivalent. The size of the cabinet is 500x500x140mm. The item includes a cabinet, fire hose DN 25. The pipe includes an extension, smel pipe DN 25mm, length 15m, smel extension Ms 2", angle valve Ms 2" with stable coupling (Al) Ø52, pressure coupling Ø25, nozzle Ø25 Al with latch, reducer coupling Ø 52 with slanted neck 25. All equipment with which the cabinet is equipped must have a corresponding valid certificate. Calculation per piece of a completely assembled and equipped hydrant up to full functionality. Valid hydrants and related equipment must be provided according to EN 671-1 or EN 671-2 standards.					
2.3	BIH		Dobava i montaza priručno-spuštanjehranjeh ventila F125-DN 50 (2")		kompos	1.00	---	€
	ENG		Procurement and installation of flow-dischargevalves F125					
UKUPNO / TOTAL								
OSTALI RADOVI								
OTHER WORKS								
3.1	BIH		Čišćenje i ispranje zvezdenog opevovoda hidrantske mreže nakon kompletno završenih radova.		kompletisat	1.00		€
	ENG		Cleaning and flushing of the constructed pipeline of the water network after the works have been finished.					
3.2	BIH		Ispravljanje zvezdenog opevovoda hidrantske mreže nakon kompletno završenih radova na pritisak 1,5 puta veći od radnog. Ispravljanje izvršiti uz prisustvo nadzornog organa i sačiniti zapisnik za isti.		kompletisat	1.00		€
	ENG		Testing of the constructed pipeline of the hydrant network after the work has been completed at a pressure 1,5 times higher than the working pressure. The testing should be carried out in the presence of the supervisory authority. Record of the test must be made.					
UKUPNO / TOTAL								
REKAPITULACIJA / TOTAL								

3.1.2c VODOVOD / WATER SUPPLY NETWORK

PREDMJER RADOVA

RB.LIN.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
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1. GRAĐEVINSKI RADOVI
CONSTRUCTION WORKS

1.1	ENG		Postavljanje PVC cijevi za odvode u temeljnim, gredama i zidovima prosječne debljine 100 cm. Obraditi po komadu postavljenog otvora. prečnik 20 do 40 mm - vodovod Installation of PVC pipes for openings in foundation beams, ceilings and walls with an average thickness of 100 cm. Calculation per piece of installed opening. diameter 20 to 40 mm - water supply		kom/pcs		12,00	12
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1.2	ENG		Popunjavanje otvora u stropovima, temeljnim gredama i zidovima nakon završene montaže i ispitivanja vodovodnih cijevi betonom MB 20 sa postavljenim odgovarajuće optike i obradom površina nakon skidanja isle. Obraditi po komadu popunjenog otvora prečnik do 50 mm - vodovod Filling of openings in ceilings, foundation beams and walls after completion of installation and testing of water pipes with concrete MB 20 with installation of appropriate formwork and finishing of surfaces after formwork removal. Calculation per piece of filled opening. diameter to 50-plumbing		kom/pcs		12,00	
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1.3	ENG		Postavljanje debljih cijevi u temeljnim, gredama i zidovima prosječne debljine 100 cm. Čelične cijevi postaviti za 50mm veće od projektovanih izdara radi osiguravanja mogućnosti rada cijevi i spoja na vanjsku infrastrukturu. Cijevi izloženi elastičastim završnim sredstvima radi sprežavanja prolaza vode. Obraditi po komadu postavljenog otvora. Duljinu zaštite cijevi prilagoditi debljini zida. Hidrauska mreža Installation of steel pipes in foundation beams and walls with an average thickness of 100 cm. Steel pipes should be placed 50 mm larger than the designed outlets in order to ensure the possibility of pipe operation and connection to the external infrastructure. Insulate the pipes with elastoplastic sealants to prevent the passage of water. Calculation per piece of installed opening. Adjust the length of the protective pipe to the thickness of the wall. hydrant network		kom/pcs		4,00	
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1.4	ENG		Štemanje ili štikanje vertikalnih zidova i ploče za potrebe ugradnje vertikalna vodovodne mreže. Potrebno je da cijev instalirana sa izolacijom bude ugrađena na način da se završni sloj fasade može navući u ravni sa ostalim zidom. Na mjestima koja ostred projektant interijera dozvoljeno je izvršiti instalacije nadzbično te da se zaštite sa nekom vrstom obloge. Wall cutting of vertical walls and slabs for the installation of vertical water pipes. It is necessary that the pipe installed with the insulation be installed in such a way that the final layer of the facade can be applied with the rest of the wall. In the places determined by the interior designer, it is allowed to carry out installations above the surface and to protect them with some kind of covering.		m1		18,00	
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1.5	ENG		Krpanje sliceva nakon pokopavanja i ispitivanja instalacija vode i kanalizacije cementnim malterom vodovod Patching of slits after laying and testing water and sewerage installations with cement mortar Plumbing		m1		214,20	
UKUPNO / TOTAL								€

RB./NR.	LANG.	POZ.	ORIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2			MONTAŽNI RADOVI ASSEMBLY WORKS					
			<p>Dobava i montaža trodijelnih aluminijsko-plastičnih (PE-Xa/AlPE-HD) cijevi izrađenih sukladno HRN EN ISO 21003-2:2008 i HRN EN ISO 21003-3:2008, sa spajalicama, pres- spojnicama, za elastični razvod sanitarne hladne i tople vode. Stavka obuhvaća sve potrebne spojnice, reduktore, T-komane i potrebni pribor i zaštitno-izolacijski materijal. Cijevi se isporučuju u pakletima te u količinama sa zaštitnom cijevi i izdajicom.</p> <p>Cijevi hladne vode položene u zidnim usjecima i podu sa zaštitnom cijevi ili originalnom PE penastom izdajicom. Cijevi tople vode i cirkulacije tople vode zadržane originalnom PE penastom izdajicom ili standardnom izdajicom. Sve kao Obavesti Mapa.</p> <p>Sve do popune funkcionalnosti.</p> <p>Obračun po m².</p> <p>DN 16 di15x2,25mm DN 20 di20x3,0mm DN 25 di25x3,0mm</p> <p>Procurement and installation of three-layer aluminium-plastic (PE-Xa/AlPE-HD) pipes made in accordance with HRN EN ISO 21003-2:2008 and HRN EN ISO 21003-3:2008, with press-fit connectors, for floor distribution of sanitary cold and hot water. The item includes all the necessary couplings, reductions, T-pieces and the necessary fastening and protective-insulating material. Pipes are delivered in sticks and in rolls with a protective pipe and insulation.</p> <p>Cold water pipes laid in wall cuts and floor with protective pipe or original PE foam insulation. Hot water pipes and hot water circulation pipes insulated with original PE foam insulation or standard insulation. Everything like Obavesti Mapa.</p> <p>Up to full functionality.</p>					
21	ENG				m ¹	60,00		
					m ¹	137,00		
					m ¹	17,20		
22	BH		Dobava i montaža ramnih propusnih ventila DN15 (15x2,3mm) DN20 (20x2,3mm) DN25 (25x3,5mm.)		kom/pis	3,00		
	ENG		Procurement and assembly of flat bypass valve		kom/pis	3,00		
23	BH		Nabavka ugrađivača impulsnih vodostajera tip sa modulom za daljinsko očitavanje ili sličan. ETW-EAX, Komplet sa opremom vodostajerne garniture Q2.5, 110mmG1", 90°C, Matis R80-H HOLEDNER ZA VODOMJER 1" KUGLASTI VENTIL 1" MBUS MODUL Modulare za ETW-EAX Q2.5, 110mmG1", 90°C, Matis R80-H HOLEDNER ZA VODOMJER 2" KUGLASTI VENTIL 2" MBUS MODUL Modulare za ETW-EAX		kom/pis	1,00		
	ENG		Procurement and installation of pulse water meter, type with remote reading module or similar. ETW-EAX, Complete set with water meter equipment		kom/pis	1,00		
			UKUPNO / TOTAL					€
3.			OSTALI RADOVI OTHER WORKS					
3.1	BH		Očišćenje i ispranje izvedenog otkovoda vodovodne mreže nakon kompletno završenih radova.		komplet/set	3,00		
	ENG		Cleaning and flushing of the constructed pipeline of the water network after the works have been finished.		komplet/set	3,00		
3.2	BH		Ispitivanje izvedenog otkovoda vodovodne mreže nakon kompletno završenih radova na pritisku 1,5 puta veći od radnog. Ispitivanje izvrši uz prisustvo nadzornog organa i sačinu zapisnik za isti.		komplet/set	214,20		
	ENG		Testing of the constructed pipeline of the water supply network after the work has been completed at a pressure 1,5 times higher than the working pressure. The testing should be carried out in the presence of the supervisory authority. Record of the test must be made.		komplet/set	214,20		
			UKUPNO / TOTAL					€
			REKAPITULACIJA / TOTAL					€

3.1.24 KANALIZACIJA / SEWERAGE			OBJEKAT AMBASADE BOSNE I HERCEGOVINE U BECU / EMBASSY BUILDING OF BIH IN VIENNA / HERBERGASSE 10, 1170 VIENNA			PREDMETAR RADOVA		
RB.NR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOMENE / NOTES	MJ. JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1. GRADBEVNSKI RADOVI CONSTRUCTION WORKS								
1.1	ENG		Postavljanje PVC cijevi za otvore u temeljnim gredama, stupovima i zidovima prosječne debljine 25 cm. Obradun po komadu postavljenog otvora. pčebnik 50 do 110 mm - kanalizacija pčebnik 110 mm do 200mm kanalizacija Installation of PVC pipes for openings in foundation beams, ceilings and walls with an average thickness of 25 cm. Calculator per piece of installed opening. diameter 50 to 110 mm - sewerage diameter 110 to 200 mm - sewerage				2,00 kom/pcs 5,00 kom/pcs	
1.2	ENG		Popunjavanje otvora u stupovima, temeljnim gredama i zidovima nakon završene montaže i ispitivanja kanalizacionih cijevi betonom MB 20 sa postavljenim odgovarajućim oplatom i obradom površina nakon sticanja iste. Obradun po komadu popunjenog otvora pčebnik 50 do 110 mm - kanalizacija pčebnik 110 mm do 200mm kanalizacija Filling of openings in ceilings, foundation beams and walls after completion of installation and testing of sewage pipes with concrete MB 20 with installation of appropriate formwork and finishing of surfaces after formwork removal. Calculator per piece of filled opening. diameter 50 to 110 mm - sewerage diameter 110 to 200 mm - sewerage				2,00 kom/pcs 5,00 kom/pcs	
1.3	ENG		Postavljanje čeličnih cijevi u temeljnim gredama i zidovima prosječne debljine 100 cm. Čelične cijevi postaviti za 50mm veće od projektovanih tlaza radi osiguranja mogućnosti rada cijevi i spoja na vanjsku infrastrukturu. Cijevi izbovati elastičastim zaptivim sredstvom radi sprečavanja prozaka vode. Obradun po komadu postavljenog otvora. Dužinu zaptivne cijevi prilagoditi debljini zida. kanalizacija do DN200 Installation of steel pipes in foundation beams and walls with an average thickness of 100 cm. Steel pipes should be placed 50 mm larger than the designed outlets in order to ensure the possibility of pipe operation and connection to the external infrastructure. Insulate the pipes with elastoplastic sealants to prevent the passage of water. Calculator per piece of installed opening. Adjust the length of the protective pipe to the thickness of the wall. sewerage up to DN200				3,00 kom/pcs	
1.4	ENG		Štampanje ili slikanje vertikalnih zidova i ploče za potrebe ugradnje vertikalna kanalizacione mreže. Potrebno je da cijev instalirana sa izolacijom bude ugrađena na način da se završni sloj fasadno-ploče može navući u ravni sa ostalim završnim slojevima. Vertikale je moguće postaviti sa zidom ili nadzbuco po nađogu arhitekta i nadzora. Wall cluing of vertical walls and slab for the installation of vertical sewage pipes. It is necessary that the pipe installed with the insulation be installed in such a way that the final layer of the facade can be applied with the rest of the wall. In the places determined by the interior designer, it is allowed to carry out installations above the surface and to protect them with some kind of covering.				95,00 m ¹	
1.5	ENG		Fixiranje pločova sitnog i finog razzoda sa trajnim materijalima, suvi mater. gips, pur pena za tu namjenu. kanalizacija Fixing slabs of small and large distribution with permanent materials: dry mortar, gypsum, pure foam for that purpose. Sewerage				150,00 m ¹	€
1.6	ENG		Otvrada završnog sloja oko vertikalne fazađne kanalizacije nakon poboljšanja i ispitivanja instalacije kanalizacije. Obhoga vertikalna sa kamonom unumom i zatvaranje u vodootporni ripps. kanalizacione vertikale Finish of the final layer around vertical fecal sewers after laying and testing the sewerage installations. Covering verticals with stone wool and sealing in waterproof plaster. sewerage vertical pipes				338,50 m ¹	
UKUPNO / TOTAL								€

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2								
			MONTAŽERSKI RADovi					
			ASSEMBLY WORKS					
21	ENG		Nabavka brtvene garniture za brtvljene cijevi u podrumu na mjestima prodora kanalizacijskih cijevi Ø200 mm. Brtvena garnitura ima upadnu bitumensku oprugu, koja se pomoću bitumenske brtve jednoliko zavari za vertikalnu hidroizolaciju podrumskog zida. Procurement of sealing sets for sealed pipes in the basement at the points of penetration of sewer pipes Ø200 mm. The sealing set has a built-in bitumen collar, which is simply welded using a bitumen seal for vertical waterproofing of the basement wall.		kompcs	1,00		
			Nabavka i montaža PVC cijevi za kućnu kanalizaciju (SILENT CJEVNI) u kojoj cijevi nisu besimne onda se obavezno sve vertikalne moraju završiti izdvolet. Stavka uključuje odgovarajuće fazonske komade za odvod sanitarno otpadnih voda iz objekta koje se polažu u zidu ili podu. Cijevi se spajaju na kotkaci i brtve tipom gumenim prstenima. PVC Ø110mm - vertikalne faze PVC Ø90 mm PVC Ø120mm PVC Ø100mm PVC Ø125mm Procurement and installation of PVC pipes for domestic sewerage (SILENT PIPES). If the pipes are not silent, then all vertical pipes must be soundproofed. The item includes matching fittings for the drainage of sanitary waste water from the building, which are laid in the wall or floor. The pipes are connected to the pin and sealed with typical rubber rings.		m1	42,00		
22	ENG		Nabavka i montaža PVC cijevi za obornu kanalizaciju. Stavka uključuje odgovarajuće fazonske komade za priključke na odvod obornih voda. Cijevi se polažu u hodniku objekta i u vanjskom uređenju. Cijevi se spajaju na kotkaci i brtve tipom gumenim prstenima. Stavka obuhvaća sve radnje do stavljanja cijevnog sistema u funkcionalno stanje. Cijevi koje se polažu u vanjsko uređenje sa svim slojevima, širina tova 0,6-1,0m, postavlja 10cm, zaspavanje cijevi 0,3 iznad i završna obrada. Dovesi u probno stanje. Zbog cijevnoda koji prolazi kroz objekat uzeti u obzir dodatnu postavljanja cijevi i kodu priključka te u skladu sa tim uzeti odstupni po m. Također sa završnom radom u hodnicima. PVC Ø125mm PVC Ø160mm Procurement and installation of PVC pipes for storm sewers. Item includes matching fitting for storm drain connections. Pipes are laid in the corridor of the building and in the exterior arrangement. The pipes are connected to the pin and sealed with typical rubber rings. The item includes all actions up to putting the pipe system in a functional state. Pipes that are laid in exterior decoration with all layers, trench width 0,6-1,0m, bedding 10cm, pipe backfilling 0,3 above and finishing. Bring to the original state. For the part of the pipeline that passes through the building, take into account the depth of the pipe installation and the elevation of the connection, and accordingly take the calculation per m. Also with an finish slab in the corridors.		m1	3,50		
23	ENG		Nabavka i montaža odzračne kape na fekalnoj vertikali. Odzračku postaviti u ventilacioni kanal koji izlazi iznad nivoa krova. Procurement and installation of the ventilation cap on the waste vertical. Place the vent in the ventilation channel that exits above the roof level.		kompcs	4,00		
24	ENG		Hydraulic testing of sewerage for watertightness.		m1	18,50		
UKUPNO / TOTAL								
			SANITARNI UREĐAJI					
			SANITARY WARE					
3	ENG		Tipovi sanitarnih i drugih uređaja, kao i armatura (ispusni ventili, mješalica, odvodni sloni itd), odabire investitor. Ovim troškovi komu su specificirane samo vrste uređaja i armatura, te kompletan rad i materijal na spajanjima i montaži. Kompletan WC tip "Tinker" ili sličan keramičke WC školjke I klase, za 6 lit ispranje, odgugle od poda 6 cm stanovi + postovni Types of sanitary and other devices, as well as fittings (discharge valves, mixers, drain siphons, etc.), are chosen by the investor. This cost estimate specifies only the types of devices and fittings, as well as the complete work and materials for connection and assembly. Toilet set: type "Tinker" or similar, ceramictvered toilet pan of the first class, for a 6 liter flush, raised from the floor 6 cm flats + business		kompcs	6,00		

REMARK	LANG.	POZ	QTY / DESCRIPTION	AMOUNT / NOTES	MJED. / UNIT	QUANTITY / AMOUNT	CLENA / UNIT PRICE	UKUPNO / TOTAL
	BIH		Ugradbeni bešujurni vodokodica tip Gebert-Duofix ili sli. komplet, tip Duofix montazni element za konzolni WC. Uprf20 ugostni ventil fi 15 mm na spoju sa vodom je fleksibilna spojna cijev između ventila i vodokodica, skloпка sa zadržim odvozom. Montaznog instalacijskog elementa za WC skloplju visine ugradnje 112 cm s niskosluimim ugradbenim vodokodicom izrađenim prema HRN EN 14055:2011. 1-piva dvovalnička plastina. Instalacijski element je samonosiv za ugradnju u subhorizontalnu zidnu ili predzidnu konstrukciju obloženu gipskartonskim pločama. Instalacijski element je samonosiv za ugradnju u subhorizontalnu zidnu ili predzidnu konstrukciju obloženu gipskartonskim pločama, komplet s integriranim kuhinjskim ventilom priključka vode 3/2", niskosluimim uljevnim ventilom, odvodnim koljenom 90/110 mm sa zadržim zadržim odvojom, spojnim komadom za WC skloplju s brtvenim manžetama i setom zadržim izlaze, vijcima za učvršćenje keramike i svim potrebnim priborom za ugradnju prema uputama proizvođača. Sve kao Gebert Duofix i odgovarajuća tipka.		kompos	6,00		
	ENG		Built-in silent concealed cistern type Gebert-Duofix or similar. Type Duofix mounting element for console toilet. Uprf20 angle valve fi 15 mm at the connection to the water, and a flexible connecting pipe between the valve and the cistern, a toilet panel made according to HRN EN 14055:2011. 1 two-volume plastic button. The installation element is self-supporting for installation in a dry wall or pre-wall construction covered with plasterboard, complete with an integrated angle valve for the 3/2" water connection, a low-noise oil valve, a drain elbow 90/110 mm with a sound-installed damp, a connecting piece for the toilet pan with sealing cuffs and sound insulation set, ceramic fixing screws and all necessary accessories for installation according to the manufacturer's instructions. Everything as Gebert Duofix and the corresponding button.					
	BHI		Kompletan umivaonik tip "tinker" ili sli. po izboru investitora umivaonik od keramike i klase učvršćen specijalnim vijcima za zid. Valcična umivaonika cca 60/50 cm.		kompos	6,00		
	ENG		Stojeci jednoručni ispušni ventil za toplu i hladnu vodu, sa dva ugostna ventila fi 15 mm. Ocjeladilo sa keramičkim elastičnom noćira sa zrad umivaonika, ocjeladilo dim 60x60 cm fiksira se za zid bušenjem tip KOLPA. Wash basin type "tinker" or similar at the choice of the investor. I class ceramic wash basin fixed with special screws to the wall. The size of the wash basin is approx. 60/50 cm. Standing one-hand outlet valve for hot and cold water, with two angle valves fi 15 mm. The mirror with a ceramic shelf is mounted above the wash basin, the mirror dimensions + 60x60 cm is fixed to the wall by drilling, 1 type KOLPA.					
	BHI		Stojeca jednoručna kromirana baterija za umivaonike sa ispušnim ventilom za toplu i hladnu vodu sa izljevom, ponikvarnim "ek"-ventilima fi 1/2" i spojnim fleksibilnim cijevima fi 1/2". Kvaliteti materijala po tehničkim uslovima i tehničkom opisu.		kompos	6,00		
	ENG		Standing single-lever chrome faucet for wash basins with hot and cold water with spout, nickel-plated "ek"-valves fi 1/2" and connecting flexible pipes fi 1/2". Material quality according to technical conditions and technical description.					
	BHI		Nabavka i ugradnja kromiranih valvica za ugradnju na mješavina čestica cijev na kanalizacijskim vertikalama i ventilima na usponskim cijevima vodovoda		kompos	4,00		
	ENG		Procurement and installation of chrome doors for installation in the places of cleaning pipes on waste vertical pipes and valves on riser pipes of the water supply system					
	BHI		Nabavka i montaža PVC podnog štimaka tip kao HL300 ili HL500P-3020 DNS0 sa horizontalnim zidnom, suhim zatvaračem neopranim misica i mrežom za prihvat hidrozapojce. U cijenu ulazi i počna rešetka od nehrđajućeg čelika po izboru projektanta i/ili. Proizvod kao HL500P.		kompos	5,00	1	
	ENG		Procurement and installation of a PVC floor drain type HL300 or HL500P-3020 DNS0 with a horizontal spool, a dry seal of unpleasant odors and a net for receiving waterproofing. The price includes a stainless steel floor grate chosen by the phase designer. Product as HL500P.					
	ENG		Calculation is done per piece					
	BHI		Dobava, priprema i montaža kompletnog pisaraa -keramičkog pisaraa I klase sa skrivnim priključkom vode i sifonom, -montaznog instalacijskog elementa za pisara visine ugradnje 112-130 cm s ugradbenim setom uređaja za aktiviranje ispranja, instalacijski element samonosiv za ugradnju u subhorizontalnu zidnu ili predzidnu konstrukciju obloženu gipskartonskim pločama, komplet s integriranim priključnim ventilom priključka vode 3/2", isplivnom cijevi 432mm s brtvenom manžetom, ugradbenim isisim sifonom i odvodnim koljenom 45/60mm, vijcima za učvršćenje keramike i svim potrebnim priborom i spojnim materijalom		kompos	1,00		
	ENG		Procurement, transfer and installation of a urinal - I class ceramic urinal with hidden water connection and siphon; pre-fabricated installation element for a urinal with an installation height of 112-130 cm with a built-in set of devices for activating flushing. Self-supporting installation element for installation in a dry-wall or pre-wall structure lined with plasterboard, complete with integrated 3/2" water connection choke valve, drain pipe 432mm with sealing sleeve, built-in siphon and drain elbow 45/60mm, screws for fixing ceramics and all necessary fastening accessories and connecting material					
			UKUPNO / TOTAL					€

RB./NR.	LANG.	POZ.	OPS / DESCRIPTION OSTALI RADOVI OTHER WORKS	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
4.								
4.1	ENG		<p>Nabavka i ugradnja betona za formiranje kanalizacionog šahta u tehničkoj sobi objekta. FŠ1. Šahat je dimenzija 0,8 x 0,8m. Dubine h=1,0-1,5m. Unutrašnjost šahta obraditi do crnog sjaja. Stavka obuhvaća stvaranje podne ploče na mjestu šahata i iskop za formiranje šahata i spoj priključnih cijevi na njega.</p> <p>Procurement and placement of concrete for the formation of the sewage manhole in technical room of the building. The manhole FŠ2 has dimensions of 0,8 x 0,8 m. Depth h=1,0-1,5m. Finish the inside of the manhole to a black gloss. The item includes the cutting of slab on place of the manhole, excavation for the formation of the manhole and the connection of connecting pipes to it.</p>		kompos	1,00	€	
4.2	ENG		<p>Nabavka i ugradnja betona za formiranje šahata za lokalnu kanalizaciju u vanjskom uređenju prema situaciji. FŠ2. Šahat je dimenzija 0,8 x 0,8m. Dubine h=1,0-1,5m. Unutrašnjost šahata obraditi do crnog sjaja. Stavka obuhvaća uklanjanje u priključni šahat sa poslopecom kolom priključka koja dikira dnu šahata. Prije početka zvođenja uvertiti iahnu koji priključka pa odrediti stvarnu dnu šahata i spoj priključnih cijevi na njega.</p> <p>Procurement and placement of concrete for the formation of the sewerage manhole in exterior according to site layout plan. FŠ2, manhole has dimensions of 0,8 x 0,8 m. Depth h=1,0-1,5m. Finish the inside of the manhole to a black gloss. The item includes the cutting of slab on place of the manhole, excavation for the formation of the manhole and the connection of connecting pipes to it.</p>		kompos	1,00	€	
4.3	ENG		<p>Nabavka i ugradnja poklopca šahata u materijalu popločenja tehničke sobe i uklanjanje u interjer. Dimenzije poklopca 60x60cm.</p> <p>Procurement and installation of the manhole cover in the technical room's bling material and filling into the interior. Cover dimensions 60x60cm.</p>		kompos	1,00	€	
4.3	ENG		<p>Nabavka i ugradnja poklopca šahata za laki saobraćaj sa ključanom. Dimenzije poklopca 60x60cm.</p> <p>Procurement and installation of a manhole cover for light traffic with a keyhole. Cover dimensions 60x60cm.</p>		kompos	1,00	€	
UKUPNO / TOTAL								€
REKAPITULACIJA / TOTAL								€

3.1.26 OBORNIŠKA KANALIZACIJA I STORMWATER DRAINAGE

3.1.26 OBORNIŠKA KANALIZACIJA I STORMWATER DRAINAGE

NAPOMENE / NOTES

MAJED. / UNIT

KOLIČINA / AMOUNT

CIJENA / UNIT PRICE

UKUPNO / TOTAL

1. GRAĐEVINSKI RADOVI
CONSTRUCTION WORKS

1.1 BHI Postavljanje PVC cijevi za odvod obornih voda sa dubinih vertikala sa revidiranim elementom 15 cm od koje podbčena. Otkriven po komadu.
predišk 110 mm do 150mm kanalizacija
Installation of PVC pipes for the drainage of stormwater from gutter verticals with a revision element 15 cm from the height of the paving.
Calculation per piece.
ENG diameter 110 mm to 150 mm sewerage

1.2 BHI Iskop zemlje III kat u rovu za podjaganje cijevnoda sa razuprženjem gdje za zahtjevuju geotehnički uslov tla. Iskopani materijal odlagati na daljinu do 3.0 m od ivice rova. Stavka obuhvata iskop za montažu nadzemnih hidranta. Iskop vrši ručno. U cijenu uzeto i eventualno crpljenje vode do 10 l/sek.
ENG Earth excavation of the third category in a trench for laying pipelines with trench breaking where required by the geomechanical conditions of the soil. Dump the excavated material at a distance of up to 3.0 m from the edge of the trench. The item includes excavation for the installation of above-ground hydrants. Do the excavation manually. The price includes possible water pumping up to 10 l/sek.

1.3 BHI Make trench bedding in two layers. In order to achieve a longitudinal fall, the lower or fundamental layer of sand or gravel 10 cm thickness. Is first backfilled, grain size up to 16 mm with mandatory compacting. Then on top of the foundation layer, from the same material, start with backfilling (with light manual compacting) of a straightened layer in which the pipe itself shapes the bearing and the thickness of the layer depends on the angle of the pipe. Minimal thickness of 5 cm). The lateral backfilling is done with the same material on both sides of the pipe with a slight manual compacting. After that, the pipe is backfilled 30 cm above pipe.
ENG

1.4 BHI Zbrinjavanje preostalog dijela rova sa zemljom iz iskopova u slojevima od 30 cm sa obavezim nabijanjem do potrebne zbijenosti. Masinski zbijanje vrši tek kad debljina naslaga iznad cijevi iznosi min. 30 cm. Iz iskopva se moraju izbaciti kameneje i tvrdi predmeti.
ENG Backfilling the remaining part of the trench with earth from the excavation in layers of 30 cm with mandatory compacting to the required compaction. Machine compaction should only be done when the thickness of the layer above the pipe is minimum 30 cm. Stones and hard objects must be removed from the excavation.

1.5 BHI Otvor visina iskopanog materijala na deponiju udaljeniu do 1km. U cijenu uradunat ulovar, transport, istovar i uređenje deponije.
ENG Removal of excess excavated material to a landfill up to 1 km away. The price includes loading, transport, unloading and disposal of the landfill. Looseness coefficient: 1,3.

2. MONTAZENSKI RADOVI
ASSEMBLY WORKS

2.1 BHI Nabavka brvne garniture za bhivljene cijevi u podrumu na mjestima prodora kanalizacionih cijevi Ø200 mm. Brvna garnitura ima ugrađenu bitumensku optičku koja se pomoću bitumenske brve jednostavno zavari za vertikalnu hidroizolaciju podrumskog zida.
ENG Procurement of sealing sets for sealed pipes in the basement at the points of penetration of sewer pipes Ø200 mm. The sealing set has a built-in bitumen collar which is simply welded using a bitumen seal for vertical waterproofing of the basement wall.

2.2 BHI Nabavka i montaža PVC cijevi za obornišku kanalizaciju. Stavka uključuje odgovarajuće fazonske komade za priključke na odvod obornih voda. Cijevi se podležu u vanjskom uređenju. Cijevi se spajaju na kolčaki i brve tipisim gumenim prstenima. Stavka obuhvata sve radnje do stavljanja cijevnog sistema u funkcionalno stanje. Cijevi koje se podležu u vanjsko uređenje sa stim adgerima, stina rova Ø160, posteljica 10cm, zasipanje cijevi 0,3 tona i završna obrada. Dovesi u podrumu obrada. Za dio opnovoiva koji podležu kroz zidove objekta usaglasiti sa nadzornim organom. Uzeti u obzir dubinu postavljanja cijevi i koju priključka te u skladu sa tim uzeti obracun po m.
ENG Procurement and installation of PVC pipes for stormwater drainage. Item includes matching fitting for storm drain connections. The pipes are laid in the exterior arrangement. The pipes are connected to the pin and sealed with typical rubber rings. The item includes all actions up to putting the pipe system in a functional state. Pipes that are laid in exterior arrangement with all layers, trench with 0.5-t, bedding 10cm, pipe backfilling 0.3 above and finishing. Bring to the original state. For the part of the pipeline that passes through the walls of the building, coordinate with the supervisory authority. Take into account the depth of the pipe installation and the height of the connection and take the calculation per m accordingly.
PVC Ø 110mm
PVC Ø 125mm
PVC Ø 160mm
PVC Ø 200mm

REANR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1.1	BHI		Postavljanje PVC cijevi za odvod obornih voda sa dubinih vertikala sa revidiranim elementom 15 cm od koje podbčena. Otkriven po komadu. predišk 110 mm do 150mm kanalizacija Installation of PVC pipes for the drainage of stormwater from gutter verticals with a revision element 15 cm from the height of the paving. Calculation per piece.		kompos		6.00	
1.2	BHI		Iskop zemlje III kat u rovu za podjaganje cijevnoda sa razuprženjem gdje za zahtjevuju geotehnički uslov tla. Iskopani materijal odlagati na daljinu do 3.0 m od ivice rova. Stavka obuhvata iskop za montažu nadzemnih hidranta. Iskop vrši ručno. U cijenu uzeto i eventualno crpljenje vode do 10 l/sek.		m3		172.70	
1.3	BHI		Make trench bedding in two layers. In order to achieve a longitudinal fall, the lower or fundamental layer of sand or gravel 10 cm thickness. Is first backfilled, grain size up to 16 mm with mandatory compacting. Then on top of the foundation layer, from the same material, start with backfilling (with light manual compacting) of a straightened layer in which the pipe itself shapes the bearing and the thickness of the layer depends on the angle of the pipe. Minimal thickness of 5 cm). The lateral backfilling is done with the same material on both sides of the pipe with a slight manual compacting. After that, the pipe is backfilled 30 cm above pipe.		m3		45.00	
1.4	BHI		Zbrinjavanje preostalog dijela rova sa zemljom iz iskopova u slojevima od 30 cm sa obavezim nabijanjem do potrebne zbijenosti. Masinski zbijanje vrši tek kad debljina naslaga iznad cijevi iznosi min. 30 cm. Iz iskopva se moraju izbaciti kameneje i tvrdi predmeti.		m3		85.00	1
1.5	BHI		Otvor visina iskopanog materijala na deponiju udaljeniu do 1km. U cijenu uradunat ulovar, transport, istovar i uređenje deponije.		m3		113.00	1
UKUPNO / TOTAL								€
MONTAZENSKI RADOVI ASSEMBLY WORKS								
2.1	BHI		Nabavka brvne garniture za bhivljene cijevi u podrumu na mjestima prodora kanalizacionih cijevi Ø200 mm. Brvna garnitura ima ugrađenu bitumensku optičku koja se pomoću bitumenske brve jednostavno zavari za vertikalnu hidroizolaciju podrumskog zida.		kompos		1.00	
2.2	BHI		Nabavka i montaža PVC cijevi za obornišku kanalizaciju. Stavka uključuje odgovarajuće fazonske komade za priključke na odvod obornih voda. Cijevi se podležu u vanjskom uređenju. Cijevi se spajaju na kolčaki i brve tipisim gumenim prstenima. Stavka obuhvata sve radnje do stavljanja cijevnog sistema u funkcionalno stanje. Cijevi koje se podležu u vanjsko uređenje sa stim adgerima, stina rova Ø160, posteljica 10cm, zasipanje cijevi 0,3 tona i završna obrada. Dovesi u podrumu obrada. Za dio opnovoiva koji podležu kroz zidove objekta usaglasiti sa nadzornim organom. Uzeti u obzir dubinu postavljanja cijevi i koju priključka te u skladu sa tim uzeti obracun po m.		m1		17.00	
					m1		42.00	
					m1		29.00	
					m1		27.00	

RB.NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
23	ENG		Nabavka i ugradnja betona za formiranje kanalizacijskog šahna OS1.2.3.6. Šahn je dimenzija 0,8 x 0,8m. Dubine h=1,0-1,5m. Unutrašnjost šahna obraditi do crnog sjaja. Svaka obduvna iskop za formiranje šahna i spoj priključnih cijevi na vjega. Procurement and placement of concrete for the formation of the sewer manhole SMT.2.3.6. The manhole has dimensions of 0,8 x 0,8 m. Depth h=1,0-1,5m. Treat the inside of the shaft to a black gloss. The item includes the excavation for the formation of the shaft and the connection of connecting pipes to it.		kom/pcs	4,00	€	
24	ENG		Nabavka i ugradnja betona za formiranje šahna za oborinsku kanalizaciju u vanjskom uređenju prema situaciji: OS1.5. Šahne dimenzija 1,0 x 1,0m. Dubine h=1,0-1,5m. Unutrašnjost šahna obraditi do crnog sjaja. Svaka obduvna iskop za formiranje šahna i spoj priključnih cijevi na vjega. Procurement and placement of concrete for the formation of a manhole for stormwater drainage in the external arrangement according to the site layout plan, the dimensions of the manhole are 1,0 x 1,0 m. Depth h=1,0-1,5m. Treat the inside of the manhole to a black gloss. The item includes the excavation for the formation of the manhole and the connection of connecting pipes to it.		kom/pcs	2,00	€	
25	ENG		Nabavka i ugradnja poklopca šahna u materijalu popločaniju vanjskog uređenja. Dimenzije poklopca 60x60cm. Nesivost šahna je za laklo sadržajno opterećenje B125. Procurement and installation of manhole cover in paving material for exterior decoration. Cover dimensions 60x60cm. The load bearing of the manhole is for light traffic load B125.		kom/pcs	4,00		
26	ENG		Nabavka i ugradnja poklopca šahna za pešački sadržaj sa ključanom. Dimenzije poklopca 60x60cm. Procurement and installation of a manhole cover for pedestrian traffic with a keyhole. Cover dimensions 60x60cm.		kom/pcs	2,00	€	
27	ENG		Nabavka i ugradnja kanalicije BECYFIX 100 sa upojnim poroznom klase opterećenja A15. Sa bočinim poklopcem i ispušnom na drugoj strani. Procurement and installation of BECYFIX 100 channel with absorption slot of load class A15. With front cover and outlet on the other side.		m1	2,20		
UKUPNO / TOTAL								
OSTALI RADovi								
OTHER WORKS								
3.1	ENG		Provjeru stanja i funkcionalnosti priključka na gradsku oborinsku kanalizaciju, te ponovni priključak u koliko stanje ne bude zadovoljavajuće. Sve usaglasiti sa nadzornim i nadležnim službenima grada Beča. Checking the condition and functionality of the connection to the public stormwater system, and re-connection if the condition is not satisfactory. Coordinate everything with supervision and competent authorities of the city of Vienna.		kom/pcs	2,00	€	
UKUPNO / TOTAL								
REKAPITULACIJA / TOTAL								
€								

REBR.	GRUPA RADOVA / WORKS DESCRIPTION	UKUPNO / TOTAL
3.1.2a	VANJSKA HIDRANTSKA I VODOVODNA MREŽA / EXTERNAL HYDRANT AND WATER SUPPLY NETWORK	€
3.1.2b	UNUTRAŠNJA HIDRANTSKA MREŽA / INTERNAL HYDRANT NETWORK	€
3.1.2c	VODOVOD / WATER SUPPLY NETWORK	€
3.1.2d	KANALIZACIJA / SEWERAGE	€
3.1.2e	OBRINSKA KANALIZACIJA / STORMWATER DRAINAGE	€
	UKUPNO RADOVI VODOVODA I KANALIZACIJE / TOTAL PLUMBING AND SEWAGE WORKS NEPREDBIJNI RADOVI / UNACCOUNTED WORKS (10%)	€
	UKUPNO / TOTAL	€
	PDV / VAT (20%)	€
	UKUPNO SA PDV / TOTAL WITH VAT	€

ELEKTRIČNE I TELEKOMUNIKACIJSKE INSTALACIJE / ELECTRICAL AND NETWORKING

PREDMJEER I PREDRAČUN RADOVA / PRICED BOQ

| KNJIGA - BOOK | B8.3 |

BEJ.NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
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B4.1.3a JAKA STRUJA / STRONG CURRENT

OBJEKAT: AMBASADE BOSNE I HERCEGOVINE U BEČU / EMBASSY BUILDING OF BIH IN VIENNA / HEUBERGASSE 10, 1170 VIENNA

PREDMETJR RADOVA

BH1 Opjena za svaku stavku prednizera mora dohivati isporuku, montažu te spajanje, po potrebi i izmjene, te dovodnje stavke u stavke popune funkcionalnosti.
 Tehnički opis i crteži su sastavni dio projekta, odnosno prednizera. Prije uzrade ponude Izvođač je dužan saopćiti obim radova i predviđenih tehničkih rješenja uvidom u priložnu dokumentaciju i ukvalificirati eventualne konkecije u odnosu na prednizer. Tipovi i proizvođači opreme u prednizju radova, navedeni su iz razloga tačnijeg pojašnjenja karakteristika opreme. Izvođač radova može ponuditi isti ili ekvivalentan proizvod, uz izjavu koju opremu nudi kao zamjensku. Uvidio Izvođač u svojoj ponudi ne navode zamjensku opremu, smatra se da će isporučiti i montirati projektovanu

ENG The price of each bill of quantities item must include delivery, installation and connection, and if necessary, grounding, as well as allowing the items to be in a state of full functionality. The technical description and drawings are an integral part of the project, as the bill of quantities. Before preparing the offer, the Contractor is obliged to review the scope of works and the envisaged technical solutions by inspecting the accompanying documentation and to calculate any corrections in relation to the bill of quantities. The types and manufacturers of equipment in the bill of quantities are listed for the reason of a more precise explanation of the characteristic equipment. The Contractor may offer the same or equivalent product, with a statement of what equipment offers as a replacement. If the Contractor does not specify replacement equipment in his offer, it is considered that it will be delivered and installed as designed.

RAZODNI OBRANI / ELECTRICAL SWITCH CABINETS

1

Nabavka i montaža razvodnog ormara prizemlja (RO-2) objekta, koji će biti izveden u stepenu zaštite IP44, zaštitno koefir - Klasa II. Opremljen montažnom pločom izdvojnima za dokumentaciju.
 Oprema se montira na DIN35 nosače, pregleđeno i tepno se označava oznakama u skladu sa dokumentacijom. Servisno u ormaru, kao i oprema koja se ugrađuje u vrata ormara, mora da bude zaštićena sa unutrašnje strane od slučajnog dodira. Sva oprema mora biti mekšastno uskladjena (funkcionalno i prema nazivim parametrima).
 Sva oprema u razvodnom ormaru mora biti izvedena od strane renomiranog proizvođača (Hager, Schneider Electric, ABB II ili III).
 Dimenzije ormara uskladjati sa opremom koja se ugrađuje i ostaviti rezervu od 30%. Oprema planirana u RO prikazana je u jednodopnoj shemi RO-2 uhišni prediđak: h1/60/100A, 3p, 50kA, podsesti, tipa HND100H
 odobrođik: prenapona SPN401, tip 1-2-25 VA
 zaštitna FID sklopka tipa FID 40M40/03 A
 zaštitna FID sklopka tipa FID 25M40/03 A
 automatski osigurači:
 CS/03 A
 C4/03 A
 C1/63 A
 C2/63 A
 B1/61 A
 B1/01 A
 C2/1 A

C1/01 A
 signaturna sijalica, 230 V, cvetna
 signaturna sijalica, 230 V, zelena
 sklopka tipa ESCC325, 25 A, 230 V
 preklopna sklopka, SF 219G, 40 A, 2p
 preklopna sklopka, SF 209, 16 A, 2p
 grebenasta sklopka tipa 4G1(0-90u
 sumračni prediđak, EE100
 analogni sedmični tajmer, EH 171
 foto sonoda, EE 003
 Razvodni ormar tipa Univers FMB52S (120 modula) proizvođača Hager ili ekvivalent
 Ređne stazaljke, vezne žice, uvodnice, sabirnice, nosači za sabirnice i ostali slični nespecificirani materijal, a sve prema jednodopnoj shemi i potrebama razvoda

kompleksni set	1,00			
kompleks	1,00			
kompleks	1,00			
kompleks	2,00			
kompleks	1,00			
kompleks	1,00			
kompleks	2,00			
kompleks	13,00			
kompleks	4,00			
kompleks	13,00			
kompleks	3,00			
kompleks	3,00			
kompleks	6,00			
kompleks	1,00			
kompleks	1,00			
kompleks	1,00			
kompleks	1,00			
kompleks	1,00			
kompleks	1,00			
kompleks	1,00			
paštalip/privox.	1,00			

1.1

BH

Procurement and installation on the wall of the distribution cabinet of the boiler room (RO-KOT) of the building, which will be made in the degree of protection IP44, protectively installed - class II, made of twice pickled sheet metal, painted in color RAL 7032, with a door with a lock, with a universal key, mounting plate and pockets for documentation. The RO is divided into two parts, the supply part and the distribution part.

Mark on the door: the name of the cabinet - "PROTECTION TNS" - the name of the manufacturer - the sign of the danger of electric shock. The equipment is mounted on DIN35 brackets, clearly and permanently marked with marks in accordance with the documentation. The busbars in the cabinet, as well as the equipment installed in the cabinet door, must be protected from the inside against accidental contact. The equipment planned in the RO is shown in the single-pole scheme of the RO. All equipment must be mutually compatible (functionally and according to nominal parameters).

All equipment in the distribution cabinet must be made by a reputable manufacturer (Hager, Schneider Electric, ABB or similar).

Match the dimensions of the wardrobe with the equipment to be installed and leave a reserve of 30%.

circuit breaker h160k3A 3p, 25kA

surge arrester SPN4 15 type 2 40kA

protective FID switch type FID 40/40 D3 A

protective circuit breaker RCBE, type F, 25/40/03 A for devices with frequency converters

combined FID switch AFK415 32/40/3 A

automatic fuses

C40/3 A

C25/3 A

C16/3 A

C10/1 A

C2/1 A

signal bulb, 230 V, red

signalna sijalica 230 V, zelena

switch 10A, 230VAC, 2 no +Dnc

switch 10A, 230VAC, 4 no +Dnc

cam switch 0-1, type G2S-50U

cam switch 0-1, type G10-50U

cam switch 0-1, type G10-50U

ridge flap, 1,0-2, type G10-C5-11

Distribution cabinet type Orion plus FL120A (95 modules) manufactured by Hager or equivalent

Row damps, connecting wires, nuts, busbars, supports for busbars and other small unspecified material, all according to the single-pole scheme and distribution needs

Nabavka i instalacija razvodnog ormara prizemlja (RO-1) objekta, koji će biti izveden u stepenu zaštite IP44, zaštitno izložen - klasa II, Opremljen montažnom pločom, otpornom za dokumentaciju.

Oprema se montira na DIN35 nosače, prečišćeno i trajno se označava oznakama u skladu sa dokumentacijom. Sadržina u ormaru, kao i oprema koja se ugrađuje u vrata ormara, mora da bude zaštićena sa unutrašnje strane od slučajnog dodira. Sve oprema mora biti međusobno usklađena (funkcionalno i prema nominalnim parametrima).

Sve oprema u razvodnom ormaru mora biti izvedena od strane renomiranog proizvođača (Hager, Schneider Electric, ABB ili slični).

Dimenzije ormara usklađeni sa opremom koja se ugrađuje i ostaviti rezervu od 30%. Oprema planirana u RO prikazana je u jednofaznoj shemi RO-P.

učinski prekidač h160k3A, 3p, 25kA

odvodnik prenapona SPN4 15, tip 2, 25 kA

zaštitna FID sklopka tipa FID 40/40 D3 A

zaštitna FID sklopka tipa FID 25/40/03 A

automatski osigurači:

C40/3 A

C25/3 A

B16/3 A

C16/1 A

B10/1 A

C10/1 A

C2/1 A

signalna sijalica, 230 V, crvena

signalna sijalica 230 V, zelena

Razvodni ormar tipa Orion plus FVBZS (120 modula) proizvođača Hager ili ekvivalent

Rezne stazaljke, vezne žice, uvođnice, sabirnice, nosači za sabirnice i ostali sitni nespješificirani materijal, a sve prema jednofaznoj shemi i potrebama razvoda

1.3

pausa/approx.

kompilset

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

kompis

pausa/approx.

RB./NR.	LANG.	POZ.	ONS DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
			<p>Procurement and installation of the distribution cabinet of the ground floor (RO-1) of the building, which will be made in the degree of protection IP44, preferably insulated - class II. Equipped with a mounting plate and socket for documentation.</p> <p>The equipment is mounted on DIN35 brackets, clearly and permanently marked with marks in accordance with the documentation. The busbars in the cabinet, as well as the equipment installed in the cabinet door, must be protected from the inside against accidental contact. All equipment must be mutually compatible (functionally and according to nominal parameters).</p> <p>All equipment in the distribution cabinet must be made by a suitable manufacturer (Hager, Schneider Electric, ABB or similar).</p> <p>Match the dimensions of the wardrobe with the equipment to be installed and leave a reserve of 30%. The equipment planned in the RO is shown in the single-pole scheme of the RO-1.</p>					
	ENG		<p>circuit breaker h 60/63A, 3p, 25kA surge arrester SPK415, type 2, 25 kV protective FID switch type FID 40/60/03 A protective FID switch type FID 25/40/03 A automatic fuses C403 A C25/3 A B16/3 A B16/1 A B10/1 A C19/1 A C2/1 A signal bulb, 230 V, red signal bulb, 230 V, green Distribution cabinet type Univer's FMS225 (120 modules) manufactured by Hager or equivalent Row clamps, connecting wires, insets, busbars, supports for busbars and other small unspecified material, all according to the single-pole scheme and distribution needs</p>					
14	BH		<p>Ostali sitni nespješirani materijal i nepredviđeni radovi (opšikom odrazna navedene stavke, navesti uočeni nespješirani sitni potrošni materijal ili nepredviđene radove)</p> <p>Other small unspecified materials and unforeseen works (when calculating the specified item, specify the used unspecified small consumables, articles, unforeseen works)</p>		pausa/approx.		1,00	
UKUPNO / TOTAL								
2. NAPOMI KABLLOVI / POWER CABLES								
			<p>Ponuditi cijenu po metru dužinom, a stvarnu dužinu izmjeriti na objektu nakon podagaenja i montaze kabla uz upis u građevinski dnevnik i ojevu od strane nadzornog inženjera. U stavku dužnog metra kabla uračunati i PVC zaštitnu ili PVI ojevu (u zavisnosti od mjesta podagaenja i ugraenja) zajedno sa svim sitnim montažnim materijalom (tipse, perforirana traka, nosači za PNT cijevi, ljepilo, vijek, silopocci i td.)</p> <p>Offer the price per meter due, and measure the actual length on the building after laying and installing the cable with an entry in the construction diary and certification by the supervising engineer. In the item of a long meter of cable, include the PVC protective or PVI pipe (depending on the place of laying and installation) together with all the small mounting material (glaster, perforated tape, supports for PNT pipes, glue, screws, nuts, feel, etc.)</p>					
21	BH		<p>Nabavka, isporuka, podagaenje i povezivanje/spojavanje na razvodne ormare napojnog kabla tipa NY-Y-1,5 x 25 mm². Sve komplet sa saviljnim PVC/PNT cijevima i sitnim materijalom</p> <p>Supply, delivery, laying and connection/joining to distribution cabinets of power cable type NY-Y-1,5 x 25 mm². All complete with flexible PVC/PNT pipes and small material</p>		m1		50,00	1
	ENG							
22	BH		<p>Nabavka, isporuka, podagaenje i povezivanje/spojavanje na razvodne ormare napojnog kabla tipa NY-Y-1,5 x 10 mm². Sve komplet sa saviljnim PVC/PNT cijevima i sitnim materijalom</p> <p>Procurement, delivery, laying and connection/joining to distribution cabinets of power cable type NY-Y-1,5 x 10 mm². All complete with flexible PVC/PNT pipes and small material</p>		m1		75,00	
	ENG							
23	BH		<p>Nabavka, isporuka, podagaenje i povezivanje/spojavanje na razvodne ormare napojnog kabla tipa NY-Y-1,5 x 6 mm². Sve komplet sa saviljnim PVC/PNT cijevima i sitnim materijalom</p> <p>Procurement, delivery, laying and connection/joining to distribution cabinets of power cable type NY-Y-1,5 x 6 mm². All complete with flexible PVC/PNT pipes and small material</p>		m1		100,00	
	ENG							
24	BH		<p>Nabavka, isporuka, podagaenje i povezivanje/spojavanje na razvodne ormarenajnog kabla tipa NY-Y-1,5 x 4 mm². Sve komplet sa saviljnim PVC/PNT cijevima i sitnim materijalom</p> <p>Procurement, delivery, laying and connection/joining to distribution cabinets of power cable type NY-Y-1,5 x 4 mm². All complete with flexible PVC/PNT pipes and small material</p>		m1		50,00	
	ENG							
25	BH		<p>Nabavka, isporuka, podagaenje i povezivanje/spojavanje na razvodne ormare dijelom u betonu i PVC cijevi, dijelom pž, do prekidača i rasvjetnih tijela, kabla tipa NY-M-1,3x1,5 mm². Sve komplet sa saviljnim PVC/PNT cijevima i sitnim materijalom</p> <p>Procurement, delivery, laying and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pž, to switches and lighting fixtures, cable type NY-M-1,3x1,5 mm². All complete with flexible PVC/PNT pipes and small material</p>		m1		1.650,00	
	ENG							

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2.6	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare dijelom u PVC cijevi, dijelom piz, do predkabela i rasvjetnih tijela, kabela tipa NYM-J 5x1.5 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	250.00		
	ENG		Procurement, delivery, laying and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pit, to switches and lighting fixtures, cable type NYM-J 5x1.5 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.7	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare dijelom u betonu u PVC cijevi, dijelom piz, do predkabela i rasvjetnih tijela, kabela tipa NYM-J 3x1.5 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	250.00		
	ENG		Procurement, delivery, laying and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pit, to switches and lighting fixtures, cable type NYM-J 3x1.5 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.8	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare/dijelom u betonu u PVC cijevi, dijelom piz, do predkabela i rasvjetnih tijela, stropnih ventil-konektora i td, kabela tipa NYM-J 5x1.5 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	50.00		
	ENG		Procurement, delivery, installation and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pit, to switches and lighting fixtures, ceiling valve connectors, etc, cable type NYM-J 5x1.5 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.9	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare dijelom u betonu u PVC cijevi, dijelom piz, ili podizanje po podu do potopnih utičnica ili direktni priključak, kabela tipa NYM-J 5x2.5 mm ² . Sve kompleti sa saviljivim PVC cijevima i sitnim materijalom		m1	75.00		
	ENG		Procurement, delivery, laying and connection/connection to distribution cabinets partly in concrete in PVC pipes, partly pit, or laying on the floor to five-pole sockets or direct connections, cable type NYM-J 5x2.5 mm ² . All complete with flexible PVC pipes and small material					
2.10	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare dijelom u betonu u PVC cijevi, dijelom piz, do tropnih šuko utičnica, kabela tipa NYM-J 3x2.5 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	450.00		8
	ENG		Procurement, delivery, laying and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pit, to three-pole sockets, cable type NYM-J 3x2.5 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.11	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare dijelom u betonu u PVC cijevi, dijelom piz, do rasvjetnih tijela u proizvodnom dijelu objekta, kabela tipa NYM-J 3x2.5 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	95.00		
	ENG		Procurement, delivery, laying and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pit, to lighting fixtures in the production part of the facility, cable type NYM-J 3x2.5 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.12	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare dijelom u betonu u PVC cijevi, dijelom piz, do potopnih industrijskih utičnica i rasvjetnih tijela u proizvodnom dijelu objekta, kabela tipa NYM-J 5x2.5 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	45.00		
	ENG		Procurement, delivery, laying and connection/joining to distribution cabinets partly in concrete in PVC pipes, partly pit, to five-pole industrial sockets and lighting fixtures in the production part of the building, cable type NYM-J 5x2.5 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.13	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme na razvodne ormare i povezuvanje opreme na razvodne ormare dijelom u betonu u PVC cijevi, dijelom piz, kabela tipa NYM-J 3x4 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	80.00		
	ENG		Procurement, delivery, laying and connection/joining to distribution cabinets and connection/connection to distribution cabinets partly in concrete in PVC pipes, partly pit, cable type NYM-J 3x4 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.14	BIH		Nabavka, isporuka, podizanje i povezuvanje opreme KPO i GRMO napojnog kabela tipa NYM-J 4 x 50 mm ² . Sve kompleti sa saviljivim PVC/PNT cijevima i sitnim materijalom		m1	50.00		
	ENG		Procurement, delivery, laying and connection/joining of KPO and GRMO power cable type NYM-J 4 x 50 mm ² . All complete with flexible PVC/PNT pipes and small material					
2.15	BIH		Ostali sitni nespješivirani materijali i nepredviđeni radovi (onkako obavezna navođenje stavka, navesti izdvojen nespješivirani sitni potrošni materijal ili nepredviđene radove)		pausali/approx.	1.00		
	ENG		Other small unspecified materials and unforeseen works (when calculating the specified item, specify the used unspecified small consumables and/or unforeseen works)					
UKUPNO / TOTAL								€

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJ./JED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
3.			ELECTRONS/ALAJUSNI ELEMENTI / ELECTRICAL INSTALLATION ELEMENTS					
	BIH	3.1	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: 10 AX 250 V tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, 10 AX 250 V switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	16,00 16,00 16,00 16,00		
	ENG	3.1	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: 10 AX 250 V tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, 10 AX 250 V switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	16,00 16,00 16,00 16,00		
	BIH	3.2	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>izmenljivo</i> tipa za prekidače jednostuki okvir, polarna bijela sjaj montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, <i>alternating</i> switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	15,00 13,00 15,00 15,00		
	ENG	3.2	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>switch</i> tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, <i>series</i> switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	4,00 4,00 4,00 4,00		
	BIH	3.3	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>ključnog</i> tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, <i>series</i> switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	4,00 4,00 4,00 4,00		
	ENG	3.3	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>key</i> tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, <i>series</i> switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	4,00 4,00 4,00 4,00		
	BIH	3.4	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>ključnog</i> tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, cross switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	2,00 2,00 2,00 2,00		
	ENG	3.4	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>key</i> tipa za prekidače jednostuki okvir montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary switch core, cross switch button single frame mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis	2,00 2,00 2,00 2,00		
	BIH	3.5	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>20 AX 250 V</i> tipa za prekidače jednostuki okvir LED sijalica za tastere montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary button core, 10 AX 250 V switch button single frame LED button light mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis kom/pis kom/pis	10,00 10,00 10,00 10,00 10,00 10,00		
	ENG	3.5	Nabavka, isporuka, montaža i spajanje mikroprekidada 10 AX, 250 V, tipa Berker R-class/1930/1930 Porzellan/Glas, proizvodada Hager ili ekvivalenti istih tehničkih karakteristika jezgro okretnog prekidača: <i>20 AX 250 V</i> tipa za prekidače jednostuki okvir LED sijalica za tastere montažna okrugla kutija dubine 40 mm Procurement, delivery, assembly and connection of microswitches 10 AX, 250 V, type Berker R-class/1930/1930 Porzellan/Glas, manufactured by Hager or equivalent with the same technical characteristics rotary button core, 10 AX 250 V switch button single frame LED button light mounting round box 40 mm deep		kom/pis kom/pis kom/pis kom/pis kom/pis kom/pis	10,00 10,00 10,00 10,00 10,00 10,00		

PR./NR.	LANG.	POZ.	OPS. DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
3.12	BH		Nabavka, isporuka, montaža i spajanje šuko utičnica 16 A, 250 V, tipa Berker R class/1930/1930 Porzellan/Glas, proizvođača Hager ili ekvivalenti istih tehničkih karakteristika (kujlja, okvir, utičnica)		kompleks	8,00		
	ENG		šuko utičnica čeljustni okvir adapter za ugradnju na zid za berker 1930/1930 Porzellan/Glas montaža okrugla kujlja Procurement, delivery, assembly and connection of 'shuko' sockets 16 A, 250 V, type Berker R class/1930/1930 Porzellan/Glas, manufacturer by Hager or equivalent with the same technical characteristics (box, frame, socket) shuko socket quad frame wall mounting adapter for Berker 1930/1930 Porzellan/Glas mounting round box		kompleks kompleks kompleks	2,00 2,00 8,00		€
3.13	BH		Nabavka, isporuka, montaža i spajanje šuko utičnica 16 A, 250 V, tipa Berker R class/1930/1930 Porzellan/Glas, proizvođača Hager ili ekvivalenti istih tehničkih karakteristika (kujlja, okvir, utičnica)		kompleks	10,00		
	ENG		šuko utičnica sa zaštitnim kontaktom i podlopcem jednostruki okvir adapter za ugradnju na zid za berker 1930/1930 Porzellan/Glas montaža okrugla kujlja Procurement, delivery, assembly and connection of 'shuko' sockets 16 A, 250 V, type Berker R class/1930/1930 Porzellan/Glas, manufacturer by Hager or equivalent with the same technical characteristics (box, frame, socket) shuko socket with protective contact, 8pin cover single frame wall mounting adapter for Berker 1930/1930 Porzellan/Glas mounting round box		kompleks kompleks kompleks	10,00 10,00 10,00		
3.14	BH		Nabavka, isporuka, montaža i spajanje šuko utičnica 16 A, 250 V, proizvođača Hager ili ekvivalenti		kompleks	6,00		
	ENG		tipodna utičnica 16A, 250V, IP44 paleopolna utičnica 16A, 250/280V, IP44 Procurement, delivery, assembly and connection of 'shuko' sockets 16 A, 250 V, manufacturer by Hager or equivalent three-pole socket 16A, 250V, IP44 three-pole socket 16A, 250/280V, IP44		kompleks	1,00		
3.15	BH		Ostali sitni nespecificirani materijal i nepredviđeni radovi (prijikom obraduna navedene stavke, navesti uostreni nespecificirani sitni potrošni materijal ili nepredviđeni radovi)		pausa/approx.	1,00		€
	ENG		Other small unspecified materials and unforeseen works (when calculating the specified item, specify the used unspecified small consumables and/or unforeseen works)					€
4.			RASVJETLA / LIGHTS					€
	BH		Uz ponudne svjetiljke potrebno priložiti i dokaz o najmanje 5 godina garancijom toka od strane proizvođača ili isporučaoca opreme, kao i dokaz da je proizveden u jednoj od država EU, te da zadovoljava sva europske standarde (ENEC standard, IEC, ISO, IAS standard, EU 84/220/12) a koje se odnose na tehničke karakteristike svjetiljke, ispunjavaju uslove, odnosno prostor i namjene. Investitor zahtjeva pravo naknadne rasvjetnog vijela, pri čemu će u tom slučaju izvoditi radova delimično samo montažu rasvjetnog vijela, na prethodno pripremljene instalacije.					
	ENG		Along with the offered lamps, it is necessary to attach proof of at least a 5-year warranty period from the manufacturer or supplier of the equipment, as well as proof that it was manufactured in one of the EU countries, and that it meets all European standards (ENEC standards, IEC, ISO and IAS standards, EU 84/220/12) and which refer to the technical characteristics of lamps; the location of installation, that is, the area of use. The investor reserves the right to purchase the lighting fixture, in which case the Contractor will define only the installation of the lighting fixture, on previously prepared installations.					
4.1	BH		S1-Nabavka, isporuka i montaža u svjetiljke sa LED izvorom svjetlosti, vodootporna svjetiljka, dimenzija 1515x60 mm, stepen zaštite IP65, IK08, Klasa I, temperatura boje 4000 K, svjetlosnog toka 6000 lm, CR>80, UGR<19, 143 lm/W, električne snage 43 W sa originalnim priborom za montažu, u istim tehničkim karakteristikama, garantni period min. 5 godina		kompleks	4,00		
	ENG		S1-Procurement, delivery and installation in lamps with LED light source, waterproof lamp, dimension 1515x60 mm, degree of protection IP65, IK08, Class I, color temperature 4000 K, luminous flux 6000 lm, CR>80, UGR<19, 143 lm/W, electric power 43 W with original mounting accessories and small consumables or equivalent with the same technical characteristics, warranty period min. 5 years					
4.2	BH		S2-Nabavka, isporuka i montaža na stropu svjetiljke sa LED izvorom svjetlosti, downlighter za sanitarne čvorove, dimenzija 110 mm, stepen zaštite IP54, temperatura boje 4000 K, svjetlosnog toka 1100 lm, 116 lm/W, električne snage 9.5 W sa originalnim priborom za montažu, u istim tehničkim karakteristikama, garantni period min. 5 godina, prema odobru investitora		kompleks	9,00		
	ENG		S2-Procurement, delivery and installation on the ceiling of a lamp, with LED light source, downlighter for sanitary facilities, dimensions 110 mm, degree of protection IP54, color temperature 4000 K, luminous flux 1100 lm, 116 lm/W, electrical power 9.5 W with original mounting accessories and small consumables or equivalent with the same technical characteristics, warranty period min. 5 years, according to the choice of the investor					

RB./NR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOMENE / NOTES	MJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
4.3	BIH		S3-Nabavka, ispodnja montaža svjetiljke, višeca tipa luster , sa LED izvornom svjetlošću, temperatura boje 4000 K, električne snage 40 W, CRi>80, sa originalnim priborom za montažu, u silnim potrošnim materijalom, prema izboru Investitora ili arhitekta interijera		kompcos	20,00		
	ENG		S3-Procurement, delivery and installation of lamps, hanging chandelier type, with LED light source, color temperature 4000 K, electric power 40 W, CRi>80, with original accessories for installation, and small consumables, according to the choice of the Investor or interior architect.					
4.4	BIH		S4-Nabavka, ispodnja montaža svjetiljke, višeca tipa luster , sa LED izvornom svjetlošću, temperatura boje 4000 K, električne snage 55 W, CRi>80, sa originalnim priborom za montažu, u silnim potrošnim materijalom, prema izboru Investitora ili arhitekta interijera		kompcos	1,00		
	ENG		S4-Procurement, delivery and installation of lamps, hanging chandelier type, with LED light source, color temperature 4000 K, electric power 55 W, CRi>80, with original mounting accessories and small consumables, according to the choice of the Investor or interior architect.					
4.3	BIH		S5-Nabavka, ispodnja i montaža svjetiljke (u horizontal), sa LED izvornom svjetlošću, nađgrađni downlighter , dimenzija f.320 mm, stepen zaštite IP40, temperatura boje 4000 K, svjetlosnog toka 2200 lm, CRi>80, UGR<19, 115 lm/W, električne snage 19 W sa originalnim priborom za montažu, u silnim potrošnim materijalom		kompcos	30,00		
	ENG		Procurement, delivery and installation in the ceiling of the lamp (in the corridor), with LED light source, surface downlighter, dimension f. 320 mm, degree of protection IP40, color temperature 4000 K, luminous flux 2200 lm, CRi>80, UGR<19, 115 lm/W, electric power 19 W with original mounting accessories and small consumables.					
4.6	BIH		S6-Nabavka ispodnja i montaža antipantik svjetiljke, sa LED izvornom svjetlošću, mogućnost autonomnog rada 3 sata, stepen zaštite IP65, K09, električne snage 8 W sa originalnim priborom za montažu, u silnim potrošnim materijalom, tipa 618 Safety permanent proizvodstva Disano		kompcos	20,00		
	ENG		S6-Procurement, delivery and installation of an antipanic lamp, with an LED light source, the possibility of autonomous operation for 3 hours, degree of protection IP65, K09, electric power 8 W with original mounting accessories and small consumables, type 618 Safety permanent manufactured by Disano or equivalent light technical characteristics.					
4.7	BIH		S7-Nabavka, ispodnja i montaža svjetiljke, kugla za vanjsku ugradnju , sa LED izvornom svjetlošću, temperatura boje 4000 K, električne snage 4-10 W, CRi>80, sa originalnim priborom za montažu, u silnim potrošnim materijalom, prema izboru Investitora ili arhitekta interijera		kompcos	4,00		
	ENG		Procurement, delivery and installation of lamps, globe for external installation, with LED light source, color temperature 4000 K, power 4-10 W, CRi>80, with original mounting accessories and small consumables, according to the choice of the Investor or interior architect.					
4.8	BIH		S8-Nabavka, ispodnja i montaža svjetiljke, tipa zidna , sa LED izvornom svjetlošću, temperatura boje 4000 K, električne snage 6-10 W, CRi>80, sa originalnim priborom za montažu, u silnim potrošnim materijalom, prema izboru Investitora ili arhitekta interijera		kompcos	35,00		
	ENG		Procurement, delivery and installation of wall-mounted lamps, with LED light source, color temperature 4000 K, power 6-10 W, CRi>80, with original mounting accessories and small consumables, according to the choice of the Investor or interior architect.					
4.9	BIH		Osilni silni nespecifičani materijal i neprovdjeni radovi (prilikom određena navedene stavke, navesti utrošen nespecifičani silni potrošni materijal (u neprovdjene radove)		parafal/propox.	1,00		
	ENG		Other small unspecified materials and untrivresen works (when calculating the specified item, specify the used unspecified small consumables and/or untrivresen works)					
UKUPNO / TOTAL								
KABLOVSKI KANALI /								
CABEL DUCTS								
5.	BIH		Nabavka, ispodnja, montaža i spajanje metalnih ljestvica/skih kabela kanala kao tip LK-300/60, komplet sa priborom za montažu kabela kanala PKUL 300/60 sa nosač NPKL099/80/5 (zadna konzola)		m1	250,00		
	BIH		nosak NPKL099/80/5 (zadna konzola)		kompcos	125,00		
	BIH		kućna spojnica USU-300/60		kompcos	10,00		
	BIH		T-spojница TSU-300/60		kompcos	5,00		
	BIH		navojna sjepa M10x2000		kompcos	150,00		
	BIH		Osilni silni nespecifičani materijal (matrica M10, vijak VE 03, ugradni vijak M10, TPLA m10 i sl.)		kompcos	1,00		
	BIH		Procurement, delivery, assembly and connection of metal ladder cable channels, such as type LK-300/60, complete with mounting accessories					
	ENG		cable channel PKUL 300/60 sc bracket NPKL-099/80/5 (wall bracket) bracket NPPL-ULP-500 (auxpend/delivering bracket) corner connector USU-300/60 T-joint TSU-300/60 threaded rod M10x2000 Other small unspecified material (nut M10, screw VE 03, installation screw M10, dowel m10, etc.)					

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
			<p>5.2</p> <p>ENG</p> <p>OSTALO / OTHER</p> <p>UKUPNO / TOTAL</p> <p>€ 8.628,00</p>					
			<p>6.</p> <p>OSTALO / OTHER</p> <p>UKUPNO / TOTAL</p> <p>€ 8.628,00</p>					
6.1	ENG		<p>Po završetku izvedenih radova, izrada ispodnih shema svih razvodnih omara i obilježavanje stupnih krugova u razvodnim omarama u skladu sa ispodnom shemom. Jednopolne sheme moraju biti jasno i raspoznajljivo vidljive, izrađene u jednom od adekvatnih softverskih paketa (autocad, eplan ili sl.), ispisane i plastificirane</p> <p>Upon completion of the works, creation of single-pole diagrams of all distribution cabinets and marking of circuits in distribution cabinets in accordance with the single-pole diagram. Single-pole schemes must be clearly and recognizably visible, created in one of the appropriate software packages (autocad, eplan or similar), printed and laminated</p>		pausali/approx.	1,00		
6.2	ENG		<p>Ispravka i ugradnja na odgovarajući način pozad. razvodnih omara i jake struje, CO2 produgožarni aparata, 5 kg, prozvođača Varioqrem ili ekvivalent sa istim tehničkim karakteristikama</p> <p>Delivery and installation on a suitable support next to high current distribution cabinets, CO2 fire extinguishers, 5 kg, manufactured by Varioqrem or equivalent, with the same technical characteristics</p>		kompljes	3,00	€	
6.3	ENG		<p>Ispravljanje elektroinstalacije i vodika, te izrada odgovarajućih protokola za tehnički prijem objekta</p> <p>Ispravljanje elektonog oipora izolacije</p> <p>Ispravljanje efikasnosti zaštite</p> <p>Ispravljanje funkcionalnosti izvedbe</p> <p>Ispravljanje povezivanja mehaničkih masa</p> <p>Ispravljanje električnog otpora uzemljenja</p> <p>Ispravljanje gromobranske instalacije</p> <p>Ispravljanje funkcionalnosti anti panik rasyetle</p> <p>Examination of the electrical installation and conductors and the creation of appropriate protocols for the technical acceptance of the facility.</p> <p>examination of protection efficiency</p> <p>examination of protection efficiency</p> <p>examination of performance functionality</p> <p>testing the electrical resistance of the grounding</p> <p>examination of the lightning protection installation</p> <p>testing the functionality of anti-panic lighting</p>		pausali/approx.	1,00		
UKUPNO / TOTAL			Napomena/Remark:		€	1,		
UKUPNO / TOTAL			Ovim predinjom nisu obuhvaćeni električni radovi, osim priljubljenia specificirane opreme na napojni kabl					
UKUPNO / TOTAL			Ovim predinjom nisu obuhvaćeni građevinski radovi, osim bušenja noga za prolaz cijevi					
UKUPNO / TOTAL			Ovim predinjom nisu obuhvaćeni radovi vanjske plinske instalacije i priljubljack od ovlaštenog distributera					
UKUPNO / TOTAL			Ovim predinjom nisu obuhvaćeni tehnički hidro radovi					
UKUPNO / TOTAL			This preliminary measure does not include electrical work, except for the connection of the specified equipment to the power cable					
UKUPNO / TOTAL			This preliminary measure does not cover construction work, except for drilling holes for pipes to pass through					
UKUPNO / TOTAL			This preliminary measure does not include external gas installation works and connection from an authorized distributor					
UKUPNO / TOTAL			This preliminary measure does not include possible hydro works					
REKAPITULACIJA / TOTAL					€			

REJ.NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
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BA.1.3b
UZEMLJENJE I GROUNDING AND LIGHTNING PROTECTION INSTALLATION
OBJAVLJAT AMBASADE BOSNE I HERCEGOVINE U BEČU / EMBASSY BUILDING OF BIH IN VIENNA / HEUBERGASSE 10, 1170 VIENNA

PREDMETAR RADOVA

Cijena za svaku stavku predviđena mora obuhvatiti isporuku, montažu te isparanje, po potrebi i uzemljenje, te dovodjenje stavke u stanje potpune funkcionalnosti.
 Tehnički opis i crteži su sastavni dio projekta, odnosno predviđena. Pipe uzdate ponudu Izvođač je dužan sagledati obim radova i predvidjeti tehnički rješenje u skladu s priloženom dokumentacijom i uvažavati eventualne korekcije u odnosu na predmetni. Tipovi i proizvođači opreme u predmetni radova, navedeni su iz razloga tehničkog pojašnjenja karakteristika opreme. Izvođač radova može ponuditi isti ili ekvivalentan proizvod, uz izjavu koju opremu nudi kao zamjensku. Ukoliko Izvođač u svojoj ponudi ne navede zamjensku opremu, smatra se da će isporučiti i montirati projektovanu

ENG
 The price for each item of the preliminary measure must include delivery, assembly and connection, if necessary, grounding and bringing the item to a state of complete functionality.
 The technical description and drawings are an integral part of the project. That is, the estimate. Before making the offer, the Contractor is obliged to review the scope of work and the proposed technical solutions by looking at the accompanying documentation and calculate any corrections in relation to the estimate. The types and manufacturers of equipment in the bill of works are listed for the purpose of a more accurate explanation of the characteristics of the equipment. The contractor can offer the same or equivalent product, with a statement that he offers the equipment as a replacement. If the contractor does not specify replacement equipment in his offer, it is considered that he will also deliver mount the designed

1. IZJEDNAČAVANJE POTENCIJALA / EQUALIZATION OF POTENTIAL

1.1
 BHH
 ENG
 Nabavka, isporuka i montaža kutija za izjednačavanje potencijala kao tip H-RQP / unutrašnja, proizvođača Hermi ili ekvivalent. Sve kompleti sa sabirnicom.
 Procurement, delivery and installation of equipotential bonding boxes as type H-RQP / internal, manufactured by Hermitz or equivalent. All complete with bus.

1.2
 BHH
 ENG
 Nabavka, isporuka i podagranje pž u savitljivoj PVC cijevi vodica PIF 1x15 mm². Vodice se polaže od kutije za izjednačavanje potencijala do završne sabirnice u razdjelnici. Sve kompleti sa vijcima, slopcama, savitljivim PVC cijevima promjera 20 mm, izolacijom trakom i ostalim sitnim nespecificiranim materijalom.
 Procurement, delivery and laying of pž in a flexible PVC pipe of conductor PIF 1x15 mm². The conductor is laid from the equipotential bonding box to the protective busbar in the distributor. All complete with screws, feet, flexible PVC pipes with a diameter of 20 mm, insulating tape and other small unspecified material.

1.3
 BHH
 ENG
 Nabavka, isporuka i podagranje pž u savitljivoj PVC cijevi vodica PIF 1x6 mm². Vodice se polaže od kutije za izjednačavanje potencijala do završne sabirnice u razdjelnici. Sve kompleti sa vijcima, slopcama, savitljivim PVC cijevima promjera 13,5 mm, izolacijom trakom i ostalim sitnim nespecificiranim materijalom.
 Procurement, delivery and laying of pž in a flexible PVC pipe of conductor PIF 1x6 mm². The conductor is laid from the equipotential bonding box to the protective busbar in the distributor. All complete with screws, feet, flexible PVC pipes with a diameter of 13,5 mm, insulating tape and other small unspecified material.

1.4
 BHH
 ENG
 Nabavka, isporuka i podagranje pž u savitljivoj PVC cijevi vodica PIF 1x4 mm². Vodice se polaže od kutije za izjednačavanje potencijala do završne sabirnice u razdjelnici. Sve kompleti sa vijcima, slopcama, savitljivim PVC cijevima promjera 13,5 mm, izolacijom trakom i ostalim sitnim nespecificiranim materijalom.
 Procurement, delivery and laying of pž in a flexible PVC pipe of conductor PIF 1x4 mm². The conductor is laid from the equipotential bonding box to the protective busbar in the distributor. All complete with screws, feet, flexible PVC pipes with a diameter of 13,5 mm, insulating tape and other small unspecified material.

NOTE: In the boiler room, make a collective grounding ring with FeZn strip 25x4 mm at a height of 0,6 m from the finished floor, together with all mounting elements and material, and connect all metal elements to the same

UKUPNO / TOTAL

€

2. UZEMLJENJE / GROUNDING

2.1
 BHH
 ENG
 Nabavka, isporuka i podagranje plošastog vodica od nehrđajućeg čelika, dimenzija 30x3,5 mm, za potrebe povezivanja metalnih masa unutar objekta, tipa PFI1 proizvođača Hermi ili ekvivalent.
 Procurement, delivery and laying of a stainless steel flat guide, dimensions 30x3,5 mm, for the purpose of connecting metal masses inside the building, type BHI manufactured by Hermi or equivalent

2.2
 BHH
 ENG
 Nabavka, isporuka i montiranje kontaktne spojnice traka-traka, izrađena od 3 pločica 58 x 58 mm, lim de 2,0 mm, vijci 4 x M8, tipa KON 01 proizvođača Hermi ili ekvivalent.
 Procurement, delivery and installation of strip-strip contact connectors. Made of 3 plates 58 x 58 mm, sheet de 2,0 mm, screws 4 x M8 type KON 01 manufactured by Hermi or equivalent

2.3
 BHH
 ENG
 Nabavka, isporuka i montiranje ukrasne spojnice traka do 40 mm-amalumno željezo do fi 32 mm, izrađena od pločica 40x30 mm, vijak M10, tipa KON 09 proizvođača Hermi ili ekvivalent.
 Procurement, delivery and installation of cross-connector strips up to 40 mm-reinforcing iron up to fi 32 mm. Made of plates 40x30 mm, screw M10, type KON 09 manufactured by Hermi or equivalent

2.1	BHH	ENG	Nabavka, isporuka i podagranje plošastog vodica od nehrđajućeg čelika, dimenzija 30x3,5 mm, za potrebe povezivanja metalnih masa unutar objekta, tipa PFI1 proizvođača Hermi ili ekvivalent. Procurement, delivery and laying of a stainless steel flat guide, dimensions 30x3,5 mm, for the purpose of connecting metal masses inside the building, type BHI manufactured by Hermi or equivalent		m1		150,00	
2.2	BHH	ENG	Nabavka, isporuka i montiranje kontaktne spojnice traka-traka, izrađena od 3 pločica 58 x 58 mm, lim de 2,0 mm, vijci 4 x M8, tipa KON 01 proizvođača Hermi ili ekvivalent. Procurement, delivery and installation of strip-strip contact connectors. Made of 3 plates 58 x 58 mm, sheet de 2,0 mm, screws 4 x M8 type KON 01 manufactured by Hermi or equivalent		kompleks		15,00	
2.3	BHH	ENG	Nabavka, isporuka i montiranje ukrasne spojnice traka do 40 mm-amalumno željezo do fi 32 mm, izrađena od pločica 40x30 mm, vijak M10, tipa KON 09 proizvođača Hermi ili ekvivalent. Procurement, delivery and installation of cross-connector strips up to 40 mm-reinforcing iron up to fi 32 mm. Made of plates 40x30 mm, screw M10, type KON 09 manufactured by Hermi or equivalent		kompleks		100,00	

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
2.4	BH ENG		Ostali sitni nespješivani materijal (prilikom obračuna navedene stavke, navesti sitni potrošni materijal) Other small unspecified material (when calculating the specified item, specify the used small consumables)		pausa/šifraprox	1.00	€	
			UKUPNO / TOTAL				€	
3. GROMOBANSKA INSTALACIJA / LIGHTING PROTECTION INSTALLATION								
3.1	BH ENG		Nabavka, isporuka i podizanje 20x3 mm kao privlačnog sistema gromobranske instalacije, komplet sa spajanjem, te njegovo podizanje potkrovlj fasade objekta Procurement, delivery and laying of 20x3 mm as a receiving system of lightning protection installation, complete with connection, and its laying on/under the facade of the building		m1	200.00	€	
3.2	BH ENG		Nabavka, isporuka i podizanje 20x3 mm kao odvodnog sistema gromobranske instalacije, komplet sa spajanjem, te njegovo podizanje po potkrovlju objekta Procurement, delivery and laying of 20x3 mm as a drainage system of the lightning rod installation, complete with connection, and its laying on the roof of the building		m1	200.00	€	
	BH		Nabavka, isporuka i montaža elementata gromobranske instalacije u skladu sa materijala pokrivača i u skladu sa projekovanim rasadom krovni nosač zidni nosač Okapnica vezna spojnica FLHT (ukršna i paralelna), označena mjernog mjesta, lozeći štak. Pločasti komplet za postavljanje lozeće palice na limeni pokrov. Omogućavaju prilagođavanje nagiba. Izrađen od aluminija. LOP P15A proizvođača HERNI ili ekvivalent Lovača palica. Vrsna palica h = 2 m, izrađena od aluminija, tipa LOP12 proizvođača HERNI ili ekvivalent Vezna spojnica Podloga za betonski pločasti komplet LOP-PB. Koristi se za zaštitu krovnog pokrivača kod montaže lovećih palica, proizvođača HERNI ili ekvivalent mjerni ornarić		komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps	50.00 30.00 10.00 15.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 1.00	€	
3.3			Procurement, delivery and installation of lightning protection installation elements in accordance with the material of the cover and in accordance with the designed layout roof conductor wall conductor fastener drip vezna spojnica FLHT (ukršna i paralelna) označena mjernog mjesta, lightning rods Firing hit for mounting the lightning stick on the cover. Allows you to adjust the slope. Made of aluminum. LOP P15A by HERNI or equivalent Hurling stick. The height of the stick h = 2 m. Made of aluminum, type LOP12 manufactured by HERNI or equivalent Base for concrete fastening set LOP-PB. It is used to protect the roof covering when mounting hurling sticks, manufactured by HERNI or equivalent mjerni ornarić		komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps komp/ps	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 1.00	€	
3.4	BH ENG		Ostali sitni nespješivani materijal (prilikom obračuna navedene stavke, navesti sitni potrošni materijal) Other small unspecified material (when calculating the specified item, specify the used small consumables)		pausa/šifraprox.	1.00	€	
			UKUPNO / TOTAL				€	
			REKAPITULACIJA / TOTAL				€	

BR./NR.	LANG.	POZ.	B4.1.3c OPIS / DESCRIPTION	NAPOMENE / NOTES	MAJED. / UNIT	KOLIČINA / AMOUNT	CIENA / UNIT PRICE	UKUPNO / TOTAL
			OBJEKAT: AMBASADE BOSNE I HERCEGOVINE U BEČU / EMBASSY BUILDING OF BIH IN VIENNA / HEUBERGASSE 10, 1170 VIENNA					PREDJEAR RADOVA
			SLABA STRUKTURA / WEAK CURRENT					
			<p>Cijena za svaku stavku predmetna mora obuhvatiti isporuku, montažu te spajanje , po potrebi i uzemljenje, te dovodjenje stavke u stanje pobune funkcionalnosti.</p> <p>Tehnički opisi i crteži su sastavni dio projekta, odnosno predmetna .</p> <p>Prigovorne primjedbe izvođač je dužan sagledati odmah radova i predviđenih tehničkih rješenja uvidom u priloženu dokumentaciju i ukalkulirati eventualne korekcije u odnosu na predmetni.</p> <p>Trgovni proizvodni opreme u predmetnom radova, navedeni su iz razloga većeg pojasnjenja karakteristika opreme.</p> <p>Izvođač radova može ponuditi isti ili ekvivalentan proizvod, uz zbirnu kopiju opreme nudi kao zamjensku.</p> <p>Ukoliko izvođač u svojoj ponudi ne navede zamjensku opremu, smatra se da se isporučiti navedeni materijal i projektovanu.</p>					
			<p>The price of each bill of quantities item must include delivery, installation and connection, and if necessary, grounding, as well as allowing the items to be in a state of full functionality. The technical description and drawings are an integral part of the project, ie the bill of quantities. Before preparing the offer, the Contractor is obliged to review the scope of works and the envisaged technical solutions by inspecting the accompanying documentation and to calculate any corrections in relation to the bill of quantities. The types and manufacturers of equipment in the bill of quantities are listed for the reason of a more precise explanation of the characteristic equipment. The Contractor may offer the same or equivalent product, with a statement of what equipment offers as a replacement. If the Contractor does not specify replacement equipment in its offer, it is considered that it will be delivered and installed as designed.</p>					
			INSTALACIJA TELEFONA I RADOVANA / PHONE AND COMPUTER INSTALLATION					
1.			<p>Glavno komunikacijsko dvorište - komunikacijski omar KO_19', 42HE. Omar je metalni sa staklenim vratima napravljen i metalnim vratima nazad, standardno opremljen sa:</p> <ul style="list-style-type: none"> Kućište komunikacionog omarra KO_19' 42HE 800x2150x800 mm ventilatorsko polje 19' sa termostatskom regulacijom elastični ploča 19' 1HE elektronički gestični razvod 19' (6 kom: šuko utičnica, 1 kom: glavni osigurač 16A, prekidač) Patch panel 24-portni, sa LC UPC portovima, 24-portni patchpanel + 24 LC UPC pigtaila-2 splice kasete) opločki razdjelnik 2xSC MM 50/125mm sa konektorima Patch panel_19', Cat6, FTP, PANDUIT tip CP24BL sa 24 kom modularnih konektora C15888, za prihvat kablova priključaka iz horizontalne instalacije Uredivač kablova horizontalni_19' 1HE PANDUIT tip WMP5 		kompleks	1,00	€	
			<p>RFP Osoo - 2960S-24TSS - Catalyst Switch 24 x 10/100/1000 + 2 x SFP L2 ili ekvivalent sa istim tehničkim karakteristikama</p> <p>Kabl presjeponi dužine l=2 m, FTP Cat6</p> <p>Kabl presjeponi dužine l=0.5 m, FTP Cat6</p> <p>UPS Legrand KEOR LINE RT 2200 VA - 1980 W IEC 19' Rack izvedba</p> <p>Montaža komunikacijskog servera u komunikacijski omar, sa montažnim materijalom, priključenje na pripremljene, isplivane i označene instalacije, isplivavanje svih funkcija centrale, edukacija kadrova korisnika za rad sa novim sistemom, sistemom aparatura i posebnim aparatom OS13</p> <p>The main communication hub - communication cabinet KO_19' 42HE. The cabinet is metal with a glass door at the front and a metal door at the back, standardly equipped with:</p> <ul style="list-style-type: none"> Communication cabinet housing KO_19' 42HE 800x2150x800 mm fan field 19' with thermostat regulation blind plates 19' 1HE power distribution 19' (6 pcs: Shuko socket, 1 pc: main fuse 16A, switch) Patch panel 24-port, with LC UPC ports, 24-port patchpanel + 24 LC UPC pigtails + 2 splice cassettes) optical splitter 2xSC MM 50/125mm with connectors Patch panel_19', Cat6, FTP, PANDUIT type CP24BL with 24 pcs of modular connectors C15888, for receiving cables of connectors from horizontal installation Cable organizer horizontal_19' 1HE PANDUIT type WMP5 RFP Osoo - 2960S-24TSS - Catalyst Switch 24 x 10/100/1000 + 2 x SFP L2 ili ekvivalent sa istim tehničkim karakteristikama <p>Connecting cable length l=2 m, FTP Cat6</p> <p>Connecting cable length l=0.5 m, FTP Cat6</p> <p>UPS Legrand KEOR LINE RT 2200 VA - 1980 W IEC 19' Rack version</p> <p>Installation of the communication server in the communication cabinet, with mounting material, connection to the prepared, heated and marked installations, testing of all functions of the switchboard, training of user personnel to work with the new system, system devices and intermediary device OS13.</p>		kompleks	1,00		
			<p>1.1</p> <p>kompleks</p>	1,00				
			<p>ENG</p> <p>kompleks</p>	1,00				
			<p>BH</p> <p>kompleks</p>	1,00				
			<p>ENG</p> <p>kompleks</p>	1,00				
			<p>BH</p> <p>kompleks</p>	1,00				
			<p>ENG</p> <p>kompleks</p>	1,00				
			<p>BH</p> <p>kompleks</p>	1,00				
			<p>ENG</p> <p>kompleks</p>	1,00				

BR./NR.	LANG.	POZ.	OPS / DESCRIPTION	NAPOMENE / NOTES	MJ./JED. / UNIT	KOLICINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1.3	ENG		Nabavka isporuka, montaža i spajanje data utičnica tipa Berker Rclasser/1930/1930 Porzellan/Glas proizvođača Hager ili ekvivalenti jezgo 2-struki računarski utičnica RJ 45 montažna okrugla kutija dubine 40 mm maske za 2-struke računarske utičnice Procurement, delivery, assembly and connection of sockets, type Berker R-classer/1930/1930 Porzellan/Glas manufactured by Hager or equivalent core of 2 RJ 45 computer sockets mounting round box 40 mm deep masks for 2 computer sockets		komps komps komps	30,00 12,00 30,00		
1.4	ENG		Nabavka isporuka i podizanje kabla tipa UTP Cat.6, 4x2x0.54. Sve kompleti sa saviljivim PVC cijevima i sitnim materijalom Procurement, delivery and laying of cable type UTP Cat.6, 4x2x0.54. All complete with flexible PVC pipes and small material		m1	1.500,00		
1.5.	ENG		Izvrši svo potrebna ispitivanja komunikacijskog sistema sa izdavanjem akta i protokola za tehnički prijem objekta (Zapisnik o protokolu ispitivanja može izdati samo jedno lice koje ima ovlaštenje za takva poslove) Carry out all necessary tests of the communication system with the issuance of certificates and protocols for the technical acceptance of the facility (records of test protocols can only be issued by a legal entity authorized for such tasks)		komps	1,00		
1.6.	ENG		Nabavka isporuka i podizanje single-mode optičkog kabla sa zrakom završetka oba kraja kabla i dovođenje u funkcionalno stanje. Single-mode ni kabl mora biti predviđen za vanjsko podizanje sa zaštitom od glodavaca (optički kabl sluzi za medijsko povezivanje server sobe sa sekundarnim komunikacionim tvornicama i sa priključnim ormanom Operator telekomunikacionog sistema) Procurement, delivery and laying of single-mode optical cable with termination of both ends of the cable and bringing it into working condition. The single-mode cable must be designed for external laying with protection against rodents (the optical cable serves to interconnect the server room with the secondary communication hubs and with the connection cabinet of the operator of the telecommunications system)		m1	450,00		
1.7.	ENG		Nabavka isporuka i ugradnja Access Point uređaja WLAN 2,4GHz 27dBi Procurement, delivery and installation of Access Point Devices WLAN 2,4GHz 27dBi		komps	2,00		
1.8.	ENG		Sihi nespješoran električni instalacijski materijal i nepredviđeni radovi priklonom zvođenja komunikacijskog sistema Small and unspecified electrical installation material and unforeseen works during the implementation of the communication system		posredstvom	1,00		
UKUPNO / TOTAL								
2. TV INSTALLATIONS								
2.1	ENG		Nabavka isporuka, montaža i spajanje RTV utičnica, tipa Berker Rclasser/1930/1930 Porzellan/Glas proizvođača Hager ili ekvivalenti jezgo antenske zavrtne RTV utičnice montažna duglja kutija dubine 40 mm maske, pokrivena bijela sjajna Procurement, delivery, assembly and connection of RTV sockets, type Berker R-classer/1930/1930 Porzellan/Glas manufactured by Hager or equivalent core, antennas, final RTV sockets mounting round box 40 mm deep mask, polir white shiny		komps komps komps	3,00 3,00 3,00		
2.2	ENG		Nabavka i podizanje u PVC cijevi u stropu i u zidu kaskalnog kabla 7/5 omotnog za prijenos televizijskog signala. Kabl se polaže u perforiranom kablovskom kanalu u dijelom na OG odupirac u susjednom stropu u fleksibilnim cijevima odgovarajućeg presjeka. Sve zajedno sa montažnim i sitnim potrošnim materijalom Procurement and laying in PVC pipes in the ceiling and in the wall of a 7/5 ohm coaxial cable for the transmission of the television signal. The cable is laid in a perforated cable channel and partly on the OG clamps in the suspended ceiling in flexible pipes of the appropriate section. All together with mounting and small consumables		m1	50,00		
UKUPNO / TOTAL								

RED./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
3.								
INSTALACIJA VATRODOJAVNOG SISTEMA / FIRE ALARM SYSTEM								
3.1	BH		Nabavka, isporuka i montaža zonske vatrodajavne centrale, LCD displej, maks. 32 detektora po zoni, sa rezervnim napajanjem, memorija 1000 događaja tipa FPC-500C proizvođača Bosch ili ekvivalenti sa istim tehničkim karakteristikama		komplet/set	1.00	€	
	ENG		Procurement and laying in PVC pipes in the ceiling and in the wall of a 75 gsm coaxial cable for the transmission of the television signal. The cable is laid in a perforated cable channel and partly in the OG clamps in the suspended ceiling in flexible pipes of the appropriate section. All together with mounting and small consumables.					
3.2	BH		Nabavka, isporuka i montaža optičko-smog javičaja požara sa izdajom pelje kvara ugrađenim u javičaju, bez podržaja tipa FCP-0320 proizvođača Bosch ili ekvivalenti		komplex	4.00		
	ENG		Procurement, delivery and installation of an optical-smoke fire detector with a heat loop isolator built into the detector, without a base type FCP-0320 manufactured by Bosch or equivalent.					
3.3	BH		Nabavka, isporuka i montaža rukovodnog javičaja požara sa izdajom pelje MS 400 proizvođača Bosch ili ekvivalenti		komplex	4.00	€	
	ENG		Procurement, delivery of detector base with loop isolator MS 400 manufactured by Bosch or equivalent.					
3.4	BH		Nabavka, isporuka i montaža termičkog javičaja požara sa izdajom pelje kvara ugrađenim u javičaju, bez podržaja tipa FCP-1320 proizvođača Bosch ili ekvivalenti		komplex	2.00	€	
	ENG		Supply, delivery and installation of a thermal fire detector with a heat loop isolator built into the detector, without a base type FCP-1320 manufactured by Bosch or equivalent.					
3.5	BH		Nabavka, isporuka i montaža ručnog javičaja požara u crvenom kućištu za direktno aktiviranje i unutrašnju montažu tipa FMC120DKM proizvođača Bosch ili ekvivalenti		komplex	13.00		
	ENG		Supply, delivery and installation of a manual fire detector in a red case for direct activation and internal installation type FMC120DKM manufactured by Bosch or equivalent.					
3.6	BH		Nabavka, isporuka i montaža sirene sa bljeskalicom sa mogućnošću 32 različitih tona, podseva do 114 dB, za vanjsku i unutrašnju montažu tipa FMA320LED-SRD proizvođača Bosch ili ekvivalenti		komplex	11.00	7	
	ENG		Supply, delivery and installation of a flashing siren with the possibility of 32 different tones, adjustable up to 114 dB, for external and internal mounting type FMA320LED-SRD manufactured by Bosch or equivalent.					
3.7	BH		Ispovuka i montaža samonajavniog vatrodajavniog kabela crvene boje, JEB-H(S)H 2x2x0 8mm, Podajanje u kablovskve regije u fleksibilne cijevi i delimino u spuštanju stopi ili pod žbuk ili na cilindru konstruktivni. Prosečno se po zidnu podaje 12 metara kabela		m1	900.00		
	ENG		Delivery and installation of self-extinguishing red fire alarm cable JEB-H(S)H 2x2x0 8mm, Laying in cable racks in flexible pipes and partially in a suspended ceiling or under plaster or on a steel structure. On average, 12 meters of cable are laid per ceiling.					
3.8	BH		Prinopredaja sistema korisniku. Ova stavka podrazumjeva sljedeće aktivnosti : Programiranje sistema u skladu sa potrebama objekta i zahtjevima korisnika Funkcionalna proba rada sistema uz testiranje svih mogućih scenarija u kompletnom sistemu Funkcionalna proba rada sistema uz testiranje svih mogućih scenarija u kompletnom sistemu Prvo ispitivanje funkcionalnosti sistema doljeve požara od strane neovisne ovlaštene firme uz izdavanje akta Izrada projekta isprednog stanja sistema doljeve požara i predaja investitoru jednog primjerka na CD-u Izrada korisničkih uputstava i predaja isih korisniku u hard-copy form Izrada primopredajnih zapisnika u 3 primjerka, potpisivanje te predaja jednog primjerka korisniku Teorijska, prezentaciona i praktična obuka za osoblje korisnika		pausa/šifraprox.	1.00		
	ENG		Handover of the system to the user. This item includes the following activities: System programming in accordance with the needs of the facility and user requirements Functional test of system operation with testing of all possible scenarios in the complete system Functional test of system operation with testing of all possible scenarios in the complete system The first test of the functionality of the fire alarm system by an independent authorized company with the issuance of a certificate Drafting of the project of the derived state of the fire alarm system and handing over one copy on CD to the investor Creating user instructions and handing them over to the user in Hard-copy form Preparation of handover records in 3 copies, signing and handing over one copy to the user Theoretical, presentational and practical training for the user's staff					
UKUPNO / TOTAL								
								€

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJER. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
4.			VIDEO NADZOR / VIDEO SURVEILLANCE					
4.1	BIH		Isponika i montaža hard diska za server SV35 4 TB 2TB 3.5" ST2000VX000 Seagate - Industrijski optimiziran hard drive platforma s 2TB Memorie - hard disk serije isprani i podestan za velike poslovs cikluse opterećenja i Tipčan za video nadzorne sisteme za pohranu podataka Sve kompleti Delivery and installation of the hard drive for the server SV35 4 TB 2TB 3.5" ST2000VX000 Seagate - Industrijski optimizir hard drive platform with 2TB of memory - Series hard drive tested and tuned for high write/erase head cycles. Typical of video surveillance data storage systems All set.		kompletset	200	1	
4.2	BIH		Isponika i montaža prenosivog patch kabela Cat 6a dužine 1m Delivery and installation of patch cable Cat 6a length 1m		kompos	1900	~	
4.3	BIH		Nabavka i podgapanje u PVC cijevi u stropu i zidu, kabela FTP CAT 6a. Kabel se polaze u perforiranom kablovskom kanalu i dijelom na OG obiluzice u susjednom stropu u klesihlim ojevima odgovarajućeg presjeka, tip kabela FTP CAT 6a. Kabel se polaze od KO do kamere. Prosjekno se po zidu polaze 40 metara kabela. Sve zaleđeno sa montažnim i istim potrošnim materijalom Procurement and laying in PVC pipes in the ceiling and in the wall FTP CAT 6a cable. The cables laid in a perforated cable channel and partly on the OG stamps in the suspended ceiling in recable pipes of the appropriate section, cable type FTP CAT 6a. Cable is laid from the KO to the camera. On average, 40 meters of cable are laid per outlet. All together with mounting and small consumables		m1	1900		
	ENG		Isponika i montaža uređaja za zapis slike NVR sa podskom za rad sa 37 P kamera, sljedećih karakteristika: - 2x2x21 P video - Video/Audio izlaz - Rezolucija snimanja 6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/D4CIF/2CIF/1CIF/DCIF - Main stream: 50 fps (P) / 60 fps (N) - Sub-stream: 50 fps (P) / 60 fps (N) - HDMI/VGA output 1-ch, resolution: 1920 x 1080P 60Hz, 1600 x 1200 60Hz, 1280 x 1024 60Hz, 1280 x 720 60Hz, 1024 x 768 60Hz - Audio output: 1-ch, RCA (Linear, 1KΩ) - 4 SATA interfejsa za 2 HDD - 1 X DVD-RW - Alarm in/out: 16/4 - Interfejs: 1 RJ45 10/100/1000 Mbps self-adaptive Ethernet interface, RS-232, RS-485, 2xUSB 2.0, USB 3.0 - 16 x 100 Mbps PoE interfejsa, podržan standardi AF 1 AT Max snaga: 200W Delivery and installation of NVR image recording devices with support for working with 37 IP cameras, with the following characteristics: - 2x2x21 P video - Video/Audio outputs - Recording resolution 6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/D4CIF/2CIF/1CIF/DCIF - Main stream: 50 fps (P) / 60 fps (N) - Sub-stream: 50 fps (P) / 60 fps (N) - HDMI/VGA output 1-ch, resolution: 1920 x 1080P 60Hz, 1600 x 1200 60Hz, 1280 x 1024 60Hz, 1280 x 720 60Hz, 1024 x 768 60Hz - Audio output: 1-ch, RCA (Linear, 1KΩ) - 4 SATA interfaces for 2 HDDs - 1 X DVD-RW - Interfaces: 1 RJ45 10/100/1000 Mbps self-adaptive Ethernet interface, RS-232 and RS-485, 2xUSB 2.0 and USB 3.0 - 16 x 100 Mbps PoE interfaces, AF and AT standards supported Max power: 200W		kompos	1,00	€	
4.4	ENG							

RB./NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJERED / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
			<p>Nabavka, isporuka i ugradnja (fiksna vanjska kamera u arhiviranih kućištu)</p> <ul style="list-style-type: none"> • 1/3" (4 MP) Progressive Scan CMOS • 2588 x 1520 Resolution @ 30 fps • EXIR 2.0 Range Up to 100 ft (30 m) • 2.8 mm to 4 mm Fixed Lens Options • H.265+, H.265, H.264+, H.264 • 120dB True WDR • MicroSD Card Slot Supports 128 GB • IP67 Protection • 12 VDC and PoE (802.3af) Max rezolucija: 2588x1520 Napajanje: 12VDC, 0.5A, max6W PoE (802.3af): 37 V to 57 V, 0.2 A to 0.1 A, maximum 7.5 W Radna temperatura: -40C ~ 60C <p>Procurement, delivery and installation (fixed external camera in an archival housing)</p> <ul style="list-style-type: none"> • 1/3" (4 MP) Progressive Scan CMOS • 2588 x 1520 Resolution @ 30 fps • EXIR 2.0 Range Up to 100 ft (30 m) • 2.8mm to 4mm Fixed Lens Options • H.265+, H.265, H.264+, H.264 • 120dB True WDR • MicroSD Card Slot Supports 128 GB • IP67 Protection • 12 VDC and PoE (802.3af) Max resolution: 2588x1520 Power supply: 12VDC, 0.5A, max 6W PoE (802.3af): 37 V to 57 V, 0.2 A to 0.1 A, maximum 7.5 W Operating temperature: -40C ~ 60C 		kom/pcs	7,00	€	
4.5	ENG		<p>Nabavka, isporuka i ugradnja FIKSNA VIDEO KAMERA za unutrašnju montažu (DOME) Osnovne karakteristike:</p> <ul style="list-style-type: none"> • 2MP • FULL HD real-time video • PoE • IP68 <p>Lensa: 2.8mm</p> <p>Domet: IR-a: 10-30m</p> <p>Efektivni pikseli: 1920x1080</p> <p>Potrzanje: Micro SD kartica do 128GB, NAS</p> <p>Komunikacija: 1 RJ45 10M/100M Ethernet</p> <p>Radna temperatura: -30°C ~ 60°C</p> <p>Napajanje: 12VDC, PoE(802.3af)</p> <p>Potrošnja struje: 5W (7W maks. s Ron)</p> <p>Nosak: kamera sa internim postupom kabla</p> <p>Procurement, delivery and installation: FIXED VIDEO CAMERA for indoor mounting (DOME)</p> <p>Basic features:</p> <ul style="list-style-type: none"> • 2MP • FULL HD real-time video • PoE • IP68 <p>Lens: 2.8mm</p> <p>IR range: 10-30m</p> <p>Effective pixels: 1920x1080</p> <p>Storage: Micro SD card up to 128GB, NAS</p> <p>Communication: 1 RJ45 10M/100M Ethernet</p> <p>Operating temperature: -30°C ~ 60°C</p> <p>Power supply: 12VDC, PoE(802.3af)</p> <p>Power consumption: 5W (7W max. with IR)</p> <p>Camera mount: with internal cable access</p>		kom/pcs	12,00	€	
4.7	ENG		<p>Prestuplje u rad, usluga obavljanja montažu i spajanje unutrašnjih i vanjskih kamera, ispitivanje, parametrisaciju klijentskog računara asembliranje svih komponenti u funkcionalan sistem, primopredaja datista /certifikata, obuka korisnika, izrada zapisnika o funkcioniranju ispitivanju i putištanju u rad.</p> <p>Commissioning the service includes: assembly and connection of internal and external cameras; (testing, parameterization of the client computer, assembly of all components into a functional system, handover of attestations and certificates, training of the User, creation of minutes on functional testing and commissioning.</p>		pausa/approx.	1,00	€	
			UKUPNO / TOTAL				€	

OBJEKAT: AMBASADE BOSNE I HERCEGOVINE U BEOGRU / EMBASSY BUILDING OF BIH IN VIENNA / HEUBERGASSE 10, 1170 VIENNA

PREDMETAR RADOVA

BA.1.34 VANJSKA RASVJETA / OUTDOOR LIGHTING

FBP/ NR. LANG. POZ. OPIS / DESCRIPTION

Cijena za svaku stavku predmetara mora obuhvatiti isporuku, montazu te opremanje, po potrebi i uzemljenje, te doručivanje stavke u samoj pobudna funkcionalnosti.

Termini opisa i crteži su sastavni dio projekta, odnosno predmetra.

Prije izrade ponude Izvođač je dužan sagledati odim radova i predviđenih tehničkih rješenja uvidom u prateću dokumentaciju i utakulisati eventualne korekcije u odnosu na predmetar.

Tipovi i proizvođači opreme u predmetaru radova, navedeni su iz razloga lakšeg prepoznavanja karakteristika opreme.

Izvođač radova može ponuditi isti ili ekvivalentan proizvod, uz djelu koju opremu nudi kao zamjensku.

Ukoliko Izvođač u svojoj ponudi ne navede zamjensku opremu, smatra se da se isporučiti i montirati projektovanu

The price of each bill of quantities item must include delivery, installation and connection, and if necessary, grounding, as well as allowing the items to be in a state of full functionality. The technical description and drawings are an integral part of the project, ie the bill of quantities. Before preparing the offer, the Contractor is obliged to review the scope of works and the envisaged technical solutions by inspecting the accompanying documentation and to calculate any corrections in relation to the bill of quantities. The types and manufacturers of equipment in the bill of quantities are listed for the reason of a more precise explanation of the characteristic equipment. The Contractor may offer the same or equivalent product, with a statement of what equipment offers as a replacement. If the Contractor does not specify replacement equipment in its offer, it is considered that it will be delivered and installed as designed.

1. GRAĐEVINSKI RADOVI / CONSTRUCTION WORK

1.1. Ruhn ili strojni iskop rova u III/IV kategorije, širine rova 0,8 m i dubine 0,4 m. Za podaganje kablova i početne debljine trake
 Manual or machine excavation of a trench in category III/IV soil, trench width 0,8 m and depth 0,4 m. For laying cables and galvanised steel strips

1.2. Nabavka i ugradnja cijevi tipa JC Ø55mm unutrašnjeg promjera 42 mm, za podaganje napojnog kabla vanjske rasvjetle
 Procurement and installation of pipes type JC Ø55mm, inner diameter 42 mm, for laying the power cable of outdoor lighting

1.3. Nabavka i ugradnja pjeska (poslijelice) prije i poslije podaganja kablova u kanal (visina postelice minimum 10 cm)
 Procurement and installation of sand (bed) before and after laying the cables in the channel (bed height minimum 10 cm)

1.4. Izrada optike za temelj / rasvjetle stubica dimenzija 0,2x0,2x0,4 m sa ugradnjom anker vijaka, ovljpe plastine cijevi i betoniranje temeljom
 Production of kerker for the foundation of a light post measuring 0,2x0,2x0,4 m with the installation of anchor bolts, two plastic pipes and covering with M20 concrete

1.5. Završavanje rova materijalom iz iskopa prosječne debljine 40-50 cm, sa nadijtanjem vibracijom. Otracun sa izvod pro m3
 Backfilling of the trench with material from the excavation with an average thickness of up to 50 cm, with tamping with a vibrating plate. The calculation is performed Per m3

UKUPNO / TOTAL €

2. MONTAZERSKI RADOVI / ASSEMBLY WORKS

2.1. Nabavka i podaganje kabla tip NY-Y 3x1 mm² u veb iskopu kablovski rov
 Procurement and laying of cable type NY-Y 3x1 mm² in an already dug cable trench

2.2. Nabavka i podaganje pocetnane debljine trake 25x4 mm (uzemljenje) i spojanje sa rasvjetnim stubom
 Procurement and laying of galvanized steel strip 25x4 mm (earthing) and connection to the light pole

2.3. Nabavka i podaganje trake za upozorenje (cervena), 30 cm iznad kabla
 Procurement and laying of warning tape (red), 30 cm above the cable

2.4. Nabavka i podaganje Gal šimka L=1 m crvene boje
 Procurement and laying of Gal shield L=1 m red color

2.5. SI-Nabavka dostava i postavljanje rasvjetnog stubca visine oko 1 meter sa LED svjetiljkom elektricnog snaga 6-9 W, 4000 K, svjetlosnog toka 400-1100 lm, CR>80, IP 66, tipa Cirine Midl proizvođača Schneider ili ekvivalent sa istim svjetlosnim karakteristikama
 ENG Procurement and installation of a connection box (distribution) procurement, delivery and installation of a lighting column about 1 meter high with an LED lamp of electric power 6-9 W, 4000 K, luminous flux 400-1100 lm, CR>80, IP 66 type Cirine Midl manufactured by Schneider or an equivalent with the same light technical characteristics in a light pole with a 10 A fuse

FBP/ NR.	LANG.	POZ.	OPIS / DESCRIPTION	NAPOМЕНЕ / NOTES	MJED / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1.	ENG		GRAĐEVINSKI RADOVI / CONSTRUCTION WORK					
1.1.	BH		Ruhn ili strojni iskop rova u III/IV kategorije, širine rova 0,8 m i dubine 0,4 m. Za podaganje kablova i početne debljine trake		m3		224,00	
1.1.	ENG		Manual or machine excavation of a trench in category III/IV soil, trench width 0,8 m and depth 0,4 m. For laying cables and galvanised steel strips					
1.2.	BH		Nabavka i ugradnja cijevi tipa JC Ø55mm unutrašnjeg promjera 42 mm, za podaganje napojnog kabla vanjske rasvjetle		m1		700,00	
1.2.	ENG		Procurement and installation of pipes type JC Ø55mm, inner diameter 42 mm, for laying the power cable of outdoor lighting					
1.3.	BH		Nabavka i ugradnja pjeska (poslijelice) prije i poslije podaganja kablova u kanal (visina postelice minimum 10 cm)		m1		56,00	
1.3.	ENG		Procurement and installation of sand (bed) before and after laying the cables in the channel (bed height minimum 10 cm)					
1.4.	BH		Izrada optike za temelj / rasvjetle stubica dimenzija 0,2x0,2x0,4 m sa ugradnjom anker vijaka, ovljpe plastine cijevi i betoniranje temeljom		kompcs		48,00	
1.4.	ENG		Production of kerker for the foundation of a light post measuring 0,2x0,2x0,4 m with the installation of anchor bolts, two plastic pipes and covering with M20 concrete					
1.5.	BH		Završavanje rova materijalom iz iskopa prosječne debljine 40-50 cm, sa nadijtanjem vibracijom. Otracun sa izvod pro m3		m3		18,00	
1.5.	ENG		Backfilling of the trench with material from the excavation with an average thickness of up to 50 cm, with tamping with a vibrating plate. The calculation is performed Per m3					
UKUPNO / TOTAL €								
2.	MONTAZERSKI RADOVI / ASSEMBLY WORKS							
2.1.	BH		Nabavka i podaganje kabla tip NY-Y 3x1 mm ² u veb iskopu kablovski rov		m1		700,00	
2.1.	ENG		Procurement and laying of cable type NY-Y 3x1 mm ² in an already dug cable trench					
2.2.	BH		Nabavka i podaganje pocetnane debljine trake 25x4 mm (uzemljenje) i spojanje sa rasvjetnim stubom		m1		700,00	
2.2.	ENG		Procurement and laying of galvanized steel strip 25x4 mm (earthing) and connection to the light pole					
2.3.	BH		Nabavka i podaganje trake za upozorenje (cervena), 30 cm iznad kabla		m1		700,00	
2.3.	ENG		Procurement and laying of warning tape (red), 30 cm above the cable					
2.4.	BH		Nabavka i podaganje Gal šimka L=1 m crvene boje		kompcs		700,00	
2.4.	ENG		Procurement and laying of Gal shield L=1 m red color					
2.5.	BH		SI-Nabavka dostava i postavljanje rasvjetnog stubca visine oko 1 meter sa LED svjetiljkom elektricnog snaga 6-9 W, 4000 K, svjetlosnog toka 400-1100 lm, CR>80, IP 66, tipa Cirine Midl proizvođača Schneider ili ekvivalent sa istim svjetlosnim karakteristikama		kompcs		48,00	
2.5.	ENG		Procurement and installation of a connection box (distribution) procurement, delivery and installation of a lighting column about 1 meter high with an LED lamp of electric power 6-9 W, 4000 K, luminous flux 400-1100 lm, CR>80, IP 66 type Cirine Midl manufactured by Schneider or an equivalent with the same light technical characteristics in a light pole with a 10 A fuse					

RR./NR.	LANG.	POZ.	OPIS /DESCRIPTION	NAPOMENE /NOTES	MJED. /UNIT	KOLIČINA /AMOUNT	CIJENA /UNIT PRICE	UKUPNO /TOTAL
2.6.	BIH		S2-Nabavka, dostava i postavljanje zidne LED svjetiljke, tipa Up&Down, elektrone snage 15 W, svjetlosni tok 1800 lm, 4000 K, IP 65, tipa Odo, proizvođača DE/AS LEDs II ekvivalent sa istim svjetlotehničkim karakteristikama		kompos		4,00	
	ENG		S2-Purchase, delivery and installation of an LED wall lamp, Up&Down type, electric power 15 W, Luminous flux 1800 lm, 4000 K, IP 65, type Odo, manufactured by DE/AS LEDs or an equivalent with the same light technical characteristics					
2.7.	BIH		S3-Nabavka, dostava i postavljanje LED podne svjetiljke, elektrone snage 25 W, IK 10, 4000 K, IP 67, tipa Terra Mini LED proizvođača Schneider II ekvivalent sa istim svjetlotehničkim karakteristikama		kompos		24,00	
	ENG		S3-Procurement, delivery and installation of an LED floor lamp, electric power 25 W, IK 10, 4000 K, IP 67, type Terra Mini LED manufactured by Schneider or an equivalent with the same light technical characteristics					
2.8.	BIH		S4-Nabavka, isporuka, transport i ugradnja na aluminijski profil LED trake za vanjsku ugradnju sa karakteristikama: 300mm/m, tip zaštite IP66, temperatura boje 4000 K		m1		70,00	0
	ENG		S4-Procurement, delivery, transport and installation on an aluminum profile of LED stripe for external installation with characteristics: 300mm/m, type of protection IP66, color temperature 4000 K					
2.9.	BIH		Nabavka, isporuka, transport i ugradnja drveta za LED traku zajedno sa vodonepropusnim kućištem sa slijedom minimalnim tehničkim karakteristikama: nominalna snaga 200 W, ulazni napon 230 V AC, izlazni napon 24 VDC, slepean zaštite IP66, integrirana prenaponska zaštita, sve zajedno sa svim sopnim materijalom i dovođenje u stanje funkcionalnosti		kompos		6,00	7
	ENG		Supply, delivery, transport and installation of the driver for the LED strip together with a waterproof case with the following minimum technical characteristics: nominal power 200 W, input voltage 230 V AC, output voltage 24 V DC, degree of protection IP66, integrated surge protection, all together with small connecting material and bringing it to a state of functionality					
2.10.	BIH		Nabavka, isporuka i montaža aluminijskog profila za postavljanje LED trake, zajedno sa svim srim montaznim materijalom		m1		70,00	
	ENG		Procurement, delivery and installation of an aluminum profile for installing the LED strip, together with all small mounting material					
2.11.	BIH		S5-Nabavka, isporuka i montaža svjetiljke, tipa lampiona na stolu, prema izboru Investitora II arhitekta interijera		kompos		4,00	
	ENG		S5-Procurement, delivery and installation of a lamp, lantern-type on a pole, according to the choice of the investor or the interior architect					
			UKUPNO /TOTAL				€	
			REKAPITULACIJA /TOTAL				€	

B4.1.3a	JAKA STRUJA / STRONG CURRENT		
1.	RAZVODNI OMKANI / ELECTRICAL SWITCH CABINETS	€	
2.	NAPOJNI KABLOVI / POWER CABLES	€	
3.	ELEKTROINSTALACIJSKI ELEMENTI / ELECTRICAL INSTALLATION ELEMENTS	€	
4.	RASVJETA / LIGHTS	€	
5.	KABLOVSKI KANALI / CABEL DUCTS	€	1
6.	OSTALO / OTHER	€	
B4.1.3b	UZEMLJENJE I GROMOBANSKA INSTALACIJA / GROUNDING AND LIGHTNING PROTECTION INSTALLATION		
1.	UZEMLJAVANJE POTENCIALA / EQUALIZATION OF POTENTIAL	€	
2.	UZEMLJENJE / GROUNDING	€	
3.	GROMOBANSKA INSTALACIJA / LIGHTING PROTECTION INSTALLATION	€	
B4.1.3c	SLABA STRUJA / WEAK CURRENT		
1.	INSTALACIJA TELEFONA I RAČUNARA / PHONE AND COMPUTER INSTALLATION	€	
2.	TV INSTALACIJE / TV INSTALLATIONS	€	
3.	INSTALACIJA VATRODOJAVNOG SISTEMA / FIRE ALARM SYSTEM	€	
4.	VIDEO NADZOR / VIDEO SURVEILLANCE	€	
5.	INSTALACIJE PROTUPROVALNOG SISTEMA / ANTY-BURGLARY SYSTEM	€	
6.	INSTALACIJA INTERFONA / INTERPHONE INSTALLATION	€	
B4.1.3d	VANJSKA RASVJETA/OUTDOOR LIGHTING		
1.	GRAĐEVINSKI RADOVI/CONSTRUCTION WORK	€	
2.	MONTAŽERSKI RADOVI / ASSEMBLY WORKS	€	
	UKUPNO / TOTAL	€	
	NEPREDVIĐENI RADOVI 10%	€	
	UKUPNO SA NEPREDVIĐENIM RADOVIMA / TOTAL	€	
	PDV / VAT (20%)	€	
	UKUPNO SA PDV / TOTAL WITH VAT	€	

MAŠINSKE I GASNE INSTALACIJE / HVAC AND GAS INSTALLATIONS
PREDMJER I PREDRAČUN RADOVA / PRICED BOQ

| KNJIGA - BOOK | B8.4 |

REBR. NR.	LAOS.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
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1. KOTLOVSKO POSTROJENJE /
BOILER ROOM

Kotlovski blok sačinjen od kotla i opreme za automatski rad kodornos sa regulatorom prema vanjskoj temperaturi, nazivnog učinka pri 50/90 stepeni 3.4 do 27 MW, stepena korisnosti 98%.

1.1
ENG
BIH
Oprema:
Vanjski osjetnik temperature kom1
Pumpa uređaja -perpndikulara visokotlačkovita
Kondenzacijski kotao zidne izvedbe za cent. grijanje
Blok uređaja sačinjen od kotla i opreme za automatski rad prema vanjskoj temperaturi, nazivnog učinka pri 50/90 stepeni 3.4 do 27 MW, stepena korisnosti 98%.

External temperature sensor pc1
Device pump - corresponding high efficiency/
Wall-mounted condensing boiler for cent. heating

1.2
ENG
BIH
Dvomi priključak za odvod dimnih plinova, kompleti za horizontalnu ugradnju
a) Vodoravni dimnovod – zidna provodnica Ø90/100 mm za kondenzacijske uređaje sa završetkom dužine 950mm
b) Otvornica i zidne ograde – po 2 komada
c) Količeno – konopčica Ø90/100 mm za kondenzacijske uređaje
Flue connection for flue gas discharge, kit for horizontal installation
a) Horizontal flue - wall conduit Ø90/100 mm for condensing devices with a length of 950 mm
b) Clamp and floor nosetile - 2 pieces each
c) Elbow - concentric Ø90/100 mm for condensing devices

Bakarna cijev (beskavna vudovna) za instalaciju grijanje prema JUS C.D.5501 (Din 1786 i 1754, list 3) slijedećih dimenzija:

- F34x2,0 mm
 - F42x1,5 mm
 - F35x,5 mm
 - F28x1 mm
 - F22x1 mm
 - F18x1 mm
- Copper pipes (seamless drawn) for heating installation according to JUS C.D.5501, (Din 1786 and 1754, sheet 3) with the following dimensions:
- F34x2,0 mm
 - F42x1,5 mm
 - F35x,5 mm
 - F28x1 mm
 - F22x1 mm
 - F18x1 mm

Termička izolacija djelovodni radnje temperature do 100 oC tip "Amaltek AC" (kolonirana) elastomer na bazi kačička crne boje

1.4	BIH	<ul style="list-style-type: none"> bp AC-19054 bp AC-19042 bp AC-19035 bp AC-19028 bp AC-13022 bp AC-13018 	<ul style="list-style-type: none"> m1 m1 m1 m1 m1 m1 	<ul style="list-style-type: none"> 20,00 32,00 18,00 10,00 20,00 6,00 			
	ENG	<ul style="list-style-type: none"> bp AC-19054 bp AC-19042 bp AC-19035 bp AC-19028 bp AC-13022 bp AC-13018 	<ul style="list-style-type: none"> m1 m1 m1 m1 m1 m1 	<ul style="list-style-type: none"> 20,00 32,00 18,00 10,00 20,00 6,00 			

Kuglasti prolazni ventil prirodnih za toplu vodu nazivnog pritiska Np 6:
 DN 50
 DN 40
 DN 32
 DN 20

Flanged through-ball valve for hot water with nominal pressure Np 6:
 DN 50
 DN 40
 DN 32
 DN 20

komps 7,00
 komps 4,00
 komps 6,00
 komps 3,00

1,5

Elektronički termostatski ventil DN40, ON/OFF sa elektromotornim pogonom
 DN 40
 Tri-većeraj valvle DN40, ON/OFF with electric drive
 DN 40

Flanged thermostatic valve DN40, ON/OFF with electric drive
 DN 40

komps 2,00

1,6

Hydrat: nestišta Np16, prirodniški
 DN 40
 Impurity trap Np16, flanged
 DN 40

Flanged hydrant Np16, flanged
 DN 40

komps 2,00

1,7

Nepovratni ventil za toplu vodu, nazivni Np6, sledećih dimenzija
 DN50
 DN40
 DN20

Non-return valve for hot water, nominal Np6, following dimensions
 DN50
 DN40
 DN20

komps 1,00
 komps 2,00
 komps 1,00

1,8

Termička izolacija otopivoda radne temperature do 100 °C tip "Amaltek AC" (rashladni dio)
 tip: AC-190K2
 Thermal insulation of pipelines operating temperature up to 100 °C type "Amaltek AC" (cooling part)
 tip: AC-190K2

Thermal insulation of pipelines operating temperature up to 100 °C type "Amaltek AC" (cooling part)
 tip: AC-190K2

m1 36,00

1,9

Dodatna termička izolacija za izloženje otopivoda rashladnog medija, a izvodi se sa 19 mm izolacionog materijala (ekspandirana guma) u debljini od 19 mm, postavljaju se na cijevi hladnjača.
 Additional thermal insulation to insulate the pipeline of the cooling medium, and it is made with 19 mm of insulating material (expanded rubber) in an aluminum sheet with a thickness of 0.5 mm. They are placed on the cooling pipes.

Additional thermal insulation to insulate the pipeline of the cooling medium, and it is made with 19 mm of insulating material (expanded rubber) in an aluminum sheet with a thickness of 0.5 mm. They are placed on the cooling pipes.

m2 6,00

1,10

Razdjelnik i sabirnik tople vode koji se izoluje sa sa izolacijom od mineralne vune u Al limu, debljine 50 mm (uprava) sledećih dimenzija:
 NO100x50 sa rinfilacijom:
 dužina 1xNO50, dužina 1x NO20, 1x NO50 (prema nacrtu)
 Distributor and collector of hot water that is insulated with mineral wool insulation in Al sheet, thickness 50 mm (control) with the following dimensions:
 NO100x50 with convectors:
 including 1xNO50, width according to consumer, 1x NO20, 1x NO50, (according to the plan)

Distributor and collector of hot water that is insulated with mineral wool insulation in Al sheet, thickness 50 mm (control) with the following dimensions:
 NO100x50 with convectors:
 including 1xNO50, width according to consumer, 1x NO20, 1x NO50, (according to the plan)

kompletset 1,00

1,11

Premijum visokoznačajna pumpa
 Wilo Stratos MAAVO 320S-12
 Visokoznačajna pumpa
 elektronički regulirana, klasa energetske učinkovitosti A
 Optična pumpa s motornim rotorom s najvišim performansama, za instalaciju u cijevi. Mogućnost primjene u svim primjenama grijanja, ventilacije i klimatizacije (-10 °C do +110 °C). S integriranim elektroničkim regulatorom snage za konstantni/varijabilni diferencijalni tlak.
 Grafički zaslonski pult s priključkom koji se može očitovati za uočavanje i lokalni raspored modula, za prikaz:
 - Pogonjski status
 - Visina regulacije
 - Zadana vrijednost diferencijalnog tlaka odn. broja okretaja
 - Događaji grešne i upozorenja
 Mješ. voda
 Kalidna prodaja: Omv= 18.5m3/h
 Visina dohvata: Hmax=12 m
 Dop. radna temperatura: (-10 °C - +110 °C), 20 °C
 Potrošnja struje P=320W
 Cijena priključka: DN 32 / PN10
 Proizvođač: Wilo Stratos MAAVO
 Tip: MAAVO 320S-12

Premium high-quality pump
 Wilo Stratos MAAVO 320S-12
 High-quality pump
 electronically regulated, class of energy efficiency A
 Optical pump with motor rotor with the highest performance, for installation in pipes. Possibility of use in all applications for heating, ventilation and air conditioning (-10 °C to +110 °C). With integrated electronic power regulator for constant/variable differential pressure.
 Graphical touch panel with connection that can be read for monitoring and local module arrangement, for display:
 - Operating status
 - Regulation height
 - Setpoint differential pressure value and rotation speed
 - Error and warning events
 Mixed water
 Sales volume: Omv= 18.5m3/h
 Suction height: Hmax=12 m
 Additional operating temperature: (-10 °C - +110 °C), 20 °C
 Power consumption P=320W
 Connection price: DN 32 / PN10
 Manufacturer: Wilo Stratos MAAVO
 Model: MAAVO 320S-12

komps 2,00

1,12

RB/ANR	LANG.	POZ.	OPIS / DESCRIPTION	NAPOMENE / NOTES	MJEDB. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
1.23	BH ENG		Čišćenje cijevovoda i opreme od metalnog štapa i premazivanje sa antikorozivnim premazom otpornim na temperaturu (2x osnovni premaz) Cleaning of pipelines and equipment from metallic shims and coating with temperature-resistant anti-corrosive coating (2x basic coating)		m ²	15,00		
1.24	BH ENG		Punjenje instalacije sa mješavinom oksisane vode i glikola Filling the installation with a mixture of oxidized water and glycol		l	600,00		
1.25	BH ENG		Grubo i fino regulacija sistema pulsirne sistema u probni rad sa odukom korisnika Coarse and fine regulation of the system putting the system into trial operation with user training		pašal/approx.	1,00		
1.26	BH ENG		Akumulator (spremnik tople hladne) vode sa 8 izlaza DN40, zapremine V=250 l Accumulator (hot/cold water tank) with 8 outlets DN40, volume V=250 l		kom/pcs	1,00		
1.27	BH ENG		Nabavka i montaža detektora plina sa vizualnom i zvučnom signalizacijom koji se montira ispod plinskog kotla Procurement and installation of a gas detector with visual and sound signaling that is mounted under the gas boiler		kom/pcs	1,00		
1.28	BH ENG		Nabavka i montaža čelične bošave cijevi 3/4" za unutrašnju instalaciju plinskog razvoda, završno odgojno u žutu boju Procurement and installation of seamless steel pipe 3/4" for internal installation of gas distribution, finished in yellow		m ¹	5,00		
1.29	BH ENG		Nabavka i montaža plinskog kuglastog ventila 1 3/4" z Supply and installation of gas ball valve and 3/4" z		kom/pcs	1,00		
1.30	BH ENG		PVC cijevi za odvod kondenzata sa svim spojnim elementima završnim elementima i izvornom. PVC pipes for draining condensate with all connecting elements, sealing elements and suspension. 6,32 mm 6,32 mm		m ¹	5,00		
UKUPNO / TOTAL								
2			VENTILOKONVEKTORI / FAN CONVECTOR				€	27.487,00
	BH		Nabavka i montaža Ultra tanki ventilokonvektor (129 mm širina komplet sa maskom) sa visokofleksibilnim EC motorima ventilatora za parageni ugrađuju, za dvocijevni sistem, komplet sa maskom, bez nogu, filerom, barom za prihvat kondenzata, monitorom UP-Touch protokomja. Sašabna štedehin tipova i veličina V2+ za sve veličine protokomja Sašabna štedehin tipova i veličina: Vp-CFF-EQM-AMV-CB-1-10 (Qh=0,400/666/92 kW, Qg=0,550/78/1,10 kW) Vp-CFF-EQM-AMV-CB-1-20 (Qh=0,67/1,19/1,62 kW, Qg=0,97/1,32/1,81 kW) Vp-CFF-EQM-AMV-CB-1-30 (Qh=0,92/1,91/2,61 kW, Qg=1,52/2,10/2,90 kW) NAPOMENA: Kapaciteti su dati za tri brzine ventilatora i Eurovent udarne, hladjenje lokalno režim 7/12 °C, Vp=27 °C, grijanje temperatura vode 45/40 °C, Vp=20 °C.		kom/pcs kom/pcs kom/pcs	4,00 16,00 11,00		
2.1	BH		Supply and installation Ultra-thin fan convectors (129 mm wide, complete with mask) with high-efficiency EC fan motors for parageni installation, for two-pipe system, complete with mask, without legs, filler, condensate pan, mounted UP-Touch electronic panel and CB-Touch regulator mounted in the service mask, two-way valve with electrothermal control drive, Sašabna production of the following types and sizes: V2+ for all sizes Sašabna production of the following types and sizes: Vp-CFF-EQM-AMV-CB-1-10 (Qh=0,400/666/92 kW, Qg=0,550/78/1,10 kW) Vp-CFF-EQM-AMV-CB-1-20 (Qh=0,67/1,19/1,62 kW, Qg=0,97/1,32/1,81 kW) Vp-CFF-EQM-AMV-CB-1-30 (Qh=0,92/1,91/2,61 kW, Qg=1,52/2,10/2,90 kW) NOTE: Capacities are given for three fan speeds and Eurovent conditions, cooling local mode 7/12 °C, Vp=27 °C, heating water temperature 45/40 °C, Vp=20 °C.		kom/pcs	62,00		
2.2	BH ENG		Loplate stavlje za zatvaranje ventilokonvektora R1Z7 Ball valves for closing the fan convectors R1Z7		kom/pcs	62,00		
2.3	BH ENG		Pomoćni materijal potreban za spravljanje, filerane boje, filerane izolacije i silikona, ploča sa 30 % od stavlje cijevi i likovna lujerij materijal (potrebni za postavljanje, filerane boje, filerane izolacije i silikona, ploča sa 30 % od stavlje cijevi i likovna boje) Auxiliary material required for painting, filler shades, decorative nozzles and the like, Is paid 30% of the item of pipes and other		pašal/approx.	0,30		

RE. NR.	LANG.	POZ.	QNTS / DESCRIPTION	NAPOJENJE / NOTES	MJ. IJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
24	BH ENG		Aluplast cijevi kodu f 20/22 mm u termičkoj izolaciji debljine 6mm/podizanje u podu konstrukciju. Aluplast pipe code f. 20 / 22 mm in thermal insulation 6 mm thick (laying in the floor structure).		m ¹	2.000,00		
25	BH ENG		Plastične cijevi za odvod kondenzata sa svim spojnim elementima zaptivim elementima i ovisom. Za paragraf ventilatoroktor f. 20 mm Plastic pipes for draining condensate with all connecting elements, sealing elements and suspension. For paragraf fan connector f. 20 mm		m ¹	60,00		
26	BH ENG		PVC cijevi za odvod kondenzata sa svim spojnim elementima zaptivim elementima i ovisom. PVC pipes for draining condensate with all connecting elements, sealing elements and suspension.		m ¹	20,00		
27	BH ENG		Hladna hidraulična proda kompletne instalacije prema tehničkim uslovima Cold hydraulic test of the complete installation according to technical conditions		parsi/dapprox.	1,00		
28	BH ENG		Podizbuve ornatoe sa DISTRIBUTERIMA SA SECOM izdaza ozrakena lopastim slavinama 1" priključoma za aluplast cijevi 20x22mm Plaster ceiling with distributors with SEVEN outlets, mirrors, ball valves 1" and connections for aluplast pipes 20x22mm		komplex	1,00		
29	BH ENG		Podizbuve ornatoe sa DESET izdaza ozrakena lopastim slavinama 1" priključoma za aluplast cijevi 20x22mm Plaster ceilings with distributors with TEN outlets, mirrors, ball valves 1" and connections for aluplast pipes 20x22mm		komplex	2,00		
210	BH ENG		Hladna hidraulična proda kompletne instalacije prema tehničkim uslovima Cold hydraulic test of the complete installation according to technical conditions		parsi/dapprox.	1,00		
UKUPNO / TOTAL								
3. RADNATORSKO GRJANJE / RADIATOR HEATING								
3.1	BH ENG		Aluminijst članasti radijator LIPONICA, ventilisli radijator u paru sa donjom ugradnjom Aluminum article radiators LIPONICA, valve radiators in pairs with lower installation tp: SOLAR 460/080		komplekst	7,00		
3.2	BH ENG		Aluminijst članasti radijator kao LIPONICA tp: SOLAR 600/080 Aluminum radiators like LIPONICA tp: SOLAR 600/080		komplekst	36,00		
3.3	BH ENG		Radijatorski regulacioni H ventil, priključak iz zida, podizavanje ujedla restrikalacije mogućnošu zavarivanja i praznjenja - donja ugradnja za donjeono grijanje sa priključnim elementima R1Z/1 spojnim elementima za aluplast cijevi 18x22mm/za radijatore sa ventilom sebovima) Radiator regulation H valves, hook from the wall, adjustment of the proportion of restriction and the possibility of closing and emptying - lower installation, for two-pipe heating with connecting elements R1Z/1 and connecting elements for aluplast pipes 18x22mm (for radiators with valve sets)		komplex	7,00		
3.4	BH ENG		Podizbuva ornatoe 700x600x110mm sa distributerima sa sedam izdaza , ozrakena lopastim slavinama 1" priključoma za aluplast cijevi 18x22mm Under-plaster ceiling 700x600x110mm with distributors with seven outlets, "radiators", ball valves 1" and connections for aluplast pipes 18x22mm		komplex	1,00		
3.5	BH ENG		Aluplast cijevi f 18x22mm sa termičkom izolacijom debljine 6mm Aluplast pipes f. 18x22mm with thermal insulation 6mm thick		m ¹	80,00		
3.6	BH ENG		Aluplast cijevi f 26x32mm sa termičkom izolacijom debljine 6mm (dio koji se vodi podizbuvo u u estihu pada do RO/ radijatora) Aluplast pipes f. 26x32mm with thermal insulation 6mm thick (the part that is led under the plaster and in the floor spread to the RO radiator)		m ¹	12,00		
3.7	BH ENG		Radijatorski termostatski regulacioni, ventil sa unoskom cijevi, priključak iz zida, podizavanje ujedla restrikalacije mogućnošu zavarivanja i praznjenja - donja ugradnja za jednocijevno grijanje sa priključnim elementima R1Z/1 spojnim elementima za aluplast cijevi 18x22mm/za radijatore sa ventilom sebovima) Radiator thermostat control valves with immersion pipe, hook from the wall, adjustment of the proportion of restriction and the possibility of closing and emptying - lower installation, for single-pipe heating with connecting elements R1Z/1 and connecting elements for aluplast pipes 18x22mm (for radiators with valve sets)		komplex	7,00		

RB.NR.	LANG.	POZ.	OPIS DESCRIPTION	MARKOVENE / NOTES	MAJED. / UNIT	KOLICINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
3.8	BH ENG		Glave za termostatske ventile Heats for thermostatic valves		kompos	7.00		
3.9	BH ENG		Radiljarske održačne pipice 1/2" Radiator vent lips 1/2"		kompos	7.00		
3.10	BH ENG		Radiljarske pipice za pražnjenje radiljara 1/2" Radiator taps for draining the radiator 1/2"		kompos	7.00		
3.11	BH ENG		Radiljarske redukcijske RT / R1/2" Radiator reducers RT / R1/2"		kompos	28.00		
3.12	BH ENG		Ovisni priboj za radiljare: radiljarski nosači radiljarske distanse Suspension accessories for radiators: radiator supports radiator distances		kompos kompos	14.00 14.00		
UKUPNO / TOTAL								
€ 4.138.00								
4.	VENTILACIJA KOTLOVNIČE / BOILER ROOM VENTILATION							
4.1	BH ENG		Ispionica, transport i montaža namodene ograde i materijala Uspone proklesne falzurne za ugradnju u zid. 525x225 mm Delivery, transport and installation of the mentioned equipment and materials Stucco anti-drumth beats for installation in doors, 525x225 mm		kompos	1.00		
4.2	BH ENG		Odsjeme proklesne falzurne za ugradnju u zid. 400x150 mm Odsjen draft-proof blinds for installation in the wall, 400x150 mm		kompos	1.00		
4.3	BH ENG		Bušenje otvora u zidu debljine d. 400x150 mm i obrada oko rešetke poslije ugradnje iste Drilling a hole in the wall of thickness d. 400x150 mm and processing around the grid after installing it		kompos	1.00		
4.4	BH ENG		Rešetke aluminijske sa fiksnim lamelama i regulatorima protoka dim 225x125mm Aluminium grille with fixed slats and stroke flow regulators 225x125mm		kompos	6.00		
4.5	BH ENG		Pomoćne kanali od lima debljine 0,7mm Galvanized sheet metal channels with a thickness of 0,7 mm		m2	15.00		
4.8	BH ENG		Sporni elementi za postizanje kanala, koljena, redukcije i T-krznati 30% kanala Connecting elements for galvanizated channels, elbows, reducers, T-pieces 30% of the channel		kompos	0.30		
UKUPNO / TOTAL								
€								
5.	KLIMA ZA SERVER SOBU / AIR CONDITIONING FOR THE SERVER ROOM							
5.1	BH ENG		Split sistem p. Izvozne za hladjenje pri niskim vanjskim temperaturama (-15 do 46°C). Invertorska tehnologija 1 kom vanjska jedinica Klase A+++ snage hladjenja 3,7 kW 1 kom unutrasnja jedinica zidna sa daljinskim upravljanjem. Vanjsku jedinicu predvidjeti sa korzom za montažu na vanjski zid. Rashladno sredstvo R410A. Predvidjeti montažu oplovača od vanjske do unutrasnje jedinice. Oplovač kondenzata prevesti u najblizu odgovornu cijev. Temperatura prostora ne smije pasti 25 °C. U cijenu uradnaili potrebne električne radove na energetskoj napajanje Split system p. performance for cooling at low external temperatures (-15 to 46°C). Inverter technology 1 pc outdoor unit Class A+++ cooling power 3.7 kW 1 pc indoor wall unit with remote control. The outdoor unit should be provided with a bracket for mounting on the outdoor wall. Refrigerant R410A. Take the condensate pipeline to the nearest drainage pipe. The room temperature must not exceed 25 °C. The price includes the necessary electrical work on the energy supply		kompos	1.00		
UKUPNO / TOTAL								
€								

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	MARČENJE / NOTES	MLJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
6.			DIZALICA TOPLINE / HEAT PUMP					

Vanjska jedinica split sustava u izvedbi topinske pumpe, serije ZUBAON, s inverterskim kompresorom te regulacijom snage i potrošnje, koja zadržava nazivni kapacitet do vanjske temperature od -15 °C, te radi u režimu grijanja do vanjske temperature od -25 °C, sljedeći tehnički značajki:

- nominalni protok vode: 55.9 L / min
- vanjska temperatura: 7 °C / voda: 35 °C
- kapacitet grijanja: 23.00 kW
- nominalna energijska učinkovitost: COP = 3.05
- specifična snaga: 5.324 kW / 400 V / 3 faza / 50 Hz
- vanjska temperatura: 2 °C / voda: 35 °C
- kapacitet grijanja: 23.00 kW
- nominalna energijska učinkovitost: COP = 2.37
- specifična snaga: 9.705 kW / 400 V / 3 faza / 50 Hz

BIH

- REZIM HIBENJA
- nominalni protok vode: 57.30 L / min
- vanjska temperatura: 35 °C / voda: 7 °C
- kapacitet hlađenja: 20.00 kW
- nominalna energijska učinkovitost: EER = 2.22
- specifična snaga: 9.009 kW / 400 V / 3 faza / 50 Hz
- vanjska temperatura: 35 °C / voda: 18 °C
- kapacitet hlađenja: 20.00 kW
- nominalna energijska učinkovitost: EER = 3.55
- specifična snaga: 5.534 kW / 400 V / 3 faza / 50 Hz
- površna rada - grijanje: -25 °C do +21 °C
- površna rada - grijanje: -25 °C do +35 °C
- površna rada - hlađenje: -15 °C do +65 °C
- temperatura vode na ulazu - grijanje: +60 °C
- temperatura vode na izlazu - hlađenje: +5 °C
- nominalni raspon temperature povrata vode - grijanje: +10 °C do +59 °C
- nominalni raspon temperature povrata vode - hlađenje: +8 °C do +28 °C
- protok vode: 28.70 - 55.90 L / min
- nivo zvučnog tlaka - grijanje (SPL): 59 dB(A)

- nivo zvučnog tlaka - grijanje (PWL): 75 dB(A)
- nivo zvučnog tlaka - hlađenje (SPL): 58 dB(A)
- dimenzije: V x S x D: 1338 x 1050 x 330 (+40) mm
- masa: 149 kg
- rasladni medij: R410A
- maksimalna dopuštena duljina cijevnog razvoda: 80 m
- maksimalna dopuštena vjerna cijevnog razvoda: 30 m
- proizvod R410A - tekuća faza: 127 mm
- proizvod R410A - plinovita faza: 26.4 mm
- Proizod: MITSUBISHI ELECTRIC
- Tip: PUHZ-SHWZ207KA

kompleks

200

6.1

External unit of the split system in the form of a heat pump, ZUBRODAN series, with an inverter compressor and power and consumption regulation, which maintains the rated capacity up to an external temperature of +15 °C, and works in heating mode up to an external temperature of -25 °C, (following technical features).

- nominal water flow: 05.9 L/min
- external temperature: 7 °C / water: 35 °C
- heating capacity: 23.00 kW
- nominal energy efficiency: COP = 3.68
- absorbed power: 0.301 kW / 400 V / 3 phases / 50 Hz
- external temperature: 2 °C / water: 35 °C
- heating capacity: 23.00 kW
- nominal energy efficiency: COP = 2.37
- absorbed power: 3.705 kW / 400 V / 3 phases / 50 Hz

- COOLING MODE

- nominal water flow: 57.20 L/min
- external temperature: 35 °C / water: 7 °C
- cooling capacity: 20.00 kW
- nominal energy efficiency: EER = 2.22
- absorbed power: 9.000 kW / 400 V / 3 phases / 50 Hz
- external temperature: 35 °C / water: 18 °C
- cooling capacity: 20.00 kW
- nominal energy efficiency: EER = 3.55
- absorbed power: 5.631 kW / 400 V / 3 phases / 50 Hz
- working area - heating: 25 °C to 12 °C
- area of operation - DHW heating: 25 °C to 35 °C
- operating area - cooling: -15 °C to +40 °C
- outdoor air temperature - heating: +0 °C
- outdoor air temperature - cooling: -45 °C
- nominal water return temperature range - heating: +10 °C to +55 °C
- nominal water return temperature range - cooling: +0 °C to +28 °C
- water flow: 20.0 / 05.50 L/min
- sound pressure level - heating (SPL): 59 dB(A)

ENG

- sound power level - heating (PWA): 75 dB(A)
- sound pressure level - cooling (SPC): 58 dB(A)
- dimensions: H x W x D: 1530 x 1050 x 334+407 mm
- mass: 149 kg
- cooling medium: R410A
- maximum permitted length of pipe substitution: 80 m
- maximum permitted height of pipe substitution: 30 m
- connection R410A - liquid phase: 12.7 mm
- connection R410A - gaseous phase: 25.4 mm
- Product: MITSUBISHI ELECTRIC
- Typ: FUHZSHWZ070A

6.2 BIH
ENG
MITSUBISHI Hidrobox reverzibilni 9kW WIII ADAPTOR Unutrašnja jedinica sustava dizalice topline zrak-voda (hidraulički stup) za hlađenje, grijanje i pripremu potrošne tople vode koji se sastoji od cirkulacijske pumpe, pobojsnog izmjenjivača topline, te sve ostale zaporne i sigurnosne tehničke potrebe za nesmetan rad sustava, sljedećih tehničkih značajki: "Kapacitet Booster jedinica: 3 + 6 kW", "napojanje Booster jedinica: 400 V / 3 faze / 50 Hz", "apsorbirana snaga cirkulacijske pumpe vode: 0.037 - 0.063 - 0.094 - 0.134 - 0.180 kW", " protok vode: 5.0 - 61.5 L/min- maksimalna visina dohvaće vode: 12.7 m

ERSE YNBEED
MITSUBISHI Hidrobox reverzibilni 9kW WIII ADAPTOR Unutrašnja jedinica sustava dizalice topline (hidraulički stup) za hlađenje i pripremu potrošne tople vode, koji se sastoji od cirkulacijske pumpe, pobojsnog izmjenjivača topline, te sve ostale tehničke potrebe za nesmetan rad sustava, sljedećih tehničkih značajki: " Booster heater capacity: 3 + 6 kW", "Booster heater power supply: 400 V / 3 Phases / 50 Hz", "absorbed power of water circulation pump: 0.037 - 0.063 - 0.094 - 0.134 - 0.180 kW", " water flow: 5.0 - 61.5 L/min - maximum water supply height: 12.7 m

6.3 BIH
ENG
Multifunkcionalna automatska zavisakana regulacija u ovisnosti o vanjskoj temperaturi. (interfajsi modula) PAC-F051B-E

6.4 BIH
ENG
Regulator grijanja/hlađenja za vođenje dva kruga bez mješovitih ventila Heating/cooling controller for managing two circuits without mixing valves

6.5 BIH
ENG
Temperaturni senzori vanjski External temperature sensors

kompos 200

kompos 1.00

kompos 1.00

kompos 1.00

BR./NR.	LANG.	POZ.	OPIS / DESCRIPTION	MOMENI / NOTES	MJED. / UNIT	KOLIČINA / AMOUNT	CIJENA / UNIT PRICE	UKUPNO / TOTAL
6.6	BIH ENG		Standardi općinski temperature T1M/P1 prema tabelu i zahtjevu automata) Standard temperature sensors T1M/P1 according to the choice and request of the automation)		kompas	7.00		
6.7	BIH ENG		Ekspandorna posuda predpunjena 1,5 bar, koeficijent zapremine V=35l Expansion vessel pre-charged 1,5 bar usable volume V=35l		kompas	2.00		
6.8	BIH ENG		Ispravnika i montaža proizvodovani bakreni cijevi u koturu 12, 7x0,9mm, za transport rashladnog fluida u adekvatnoj izolaciji (svoj vanjske i unutrasnje i unutrasnje jedinice dizalce topline) Delivery and installation of pre-fabricated copper pipes in coils 12, 7x0,9mm, for the transport of coolant in adequate insulation (connection of the external and internal unit of the heat pump)		m1	20,00		
6.9	BIH ENG		Ispravnika i montaža tvrdih bakrenih cijevi za transport rashladnog fluida 25, 4x1,2mm u adekvatnoj izolaciji (svoj vanjske i unutrasnje jedinice dizalce topline) Delivery and installation of hard copper pipes for transporting cooling fluid 25, 4x1,2mm in adequate insulation (joint of external and internal unit of the heat pump)		m1	20,00		
6.10	BIH ENG		Ispravnika i montaža PVC cijevi promjera 110mm za hidrozastupni cijevi koje vodimo kroz tlo (uračunati i iskopavanje u tlu širine 500m i dubine 600mm) Delivery and installation of PVC pipes with a diameter of 110mm for the waterproofing of the pipes that we run through the ground (including trenches in the ground with a width of 500 m and a depth of 600 mm).		m1	20,00		
7.			UKUPNO / TOTAL DIZALICA TOPLINE / HEAT PUMP					€
	BIH		Vertikalna invaridna platforma karakteristika: Podizna pod 180° Visina dizanja do 2,100mm Nosivost 250kg Dimenzije 1,250x500mm podizna pod 180 Nosivost 250kg Brzina 0,05m/s Napajanje: P=2,2kW 230V jednofazni 50Hz Priprema metalnelektromske podkonstrukcije na desnoj strani, gdje je pogodan u obavezni ravnodica		kompas	1,00		
7.1.	ENG		Vertical disassembled platform features: Passing under 180° Lifting height up to 2,100mm Load capacity 250 kg Dimensions 1,250x500mm passable floor 180 Load capacity 250 kg Speed 0,05 m/s Power supply: P=2,2kW 230V single phase 50Hz Preparation of the metal/electrical substructure on the right side, where the drive is the responsibility of the client					
			UKUPNO / TOTAL					€
			Napomena: Ovim predinjezom nisu obuhvaćeni električni radovi, osim priključivanje specifične opreme na napojni kabl Ovim predinjezom nisu obuhvaćeni građevinski radovi, osim bušenja rupa za prolaz cijevi Ovim predinjezom nisu obuhvaćeni radovi vanjske plinske instalacije i priključak od ovlaštenog distributera Ovim predinjezom nisu obuhvaćeni eventualni hidro radovi Remark					
			This preliminary measure does not cover electrical works, except for the connection of the specified equipment to the power cable This preliminary measure does not include construction works, except for drilling holes for pipes to pass through This preliminary measure does not include external gas installation works and connection from an authorized distributor This preliminary measure does not include possible hydro works					
			REKAPITULACIJA / TOTAL					€

R.B./N.R.	GRUPA RADOVA / WORKS DESCRIPTION	UKUPNO / TOTAL
1.	KOTLOVSKO POSTROJENJE / BOILER ROOM	€
2.	VENTILOKONVEKTORI / FAN CONVECTOR	€
3.	RADIATORSKO GRIJANJE / RADIATOR HEATING	€
4.	VENTILACIJA KOTLOVNICE / BOILER ROOM VENTILATION	€
5.	KLIMA ZA SERVER SOBU / AIR CONDITIONING FOR THE SERVER ROOM	€
6.	DIZALICA TOPLINE / HEAT PUMP	€
7.	VERTIKALNA INVALDISKA PLATFORMA/vertical disabled platform	€
UKUPNO RADOVI VODOVODA I KANALIZACIJE / TOTAL PLUMBING AND SEWAGE WORKS NEREDVIDENI RADOVI / UNACCOUNTED WORKS (10%)		€
UKUPNO / TOTAL		€
PDV / VAT (20%)		€
UKUPNO SA PDV / TOTAL WITH VAT		€

| KNJIGA - BOOK | B8.5 |

PREDMJER I PREDRAČUN RADOVA / PRICED BOQ

REKAPITULACIJA RADOVA / ALL WORKS

ZBIRNA REKAPITULACIJA

RB./NR.	GRUPA RADOVA / WORKS DESCRIPTION	UKUPNO / TOTAL
ARHITEKTURA / ARCHITECTURE		
1.	PRIPREMNI RADOVI / PREPARATORY WORKS	€
2.	DEMONTAŽE I RUŠENJA - UNUTRA / DISMANTLING AND DEMOLITION WORKS - INSIDE	€
3.	DEMONTAŽE I RUŠENJA - VANI / DISMANTLING AND DEMOLITION WORKS - OUTSIDE	€
4.	ZEMljANI RADOVI / EARTH WORKS	€
5.	BETONSKI RADOVI / CONCRETE WORKS	€
6.	ZIDARSKI RADOVI / MASONRY WORKS	€
7.	HIDROIZOLACIONI RADOVI / WATERPROOFING WORKS	€
8.	GIPS-KARTONSKI RADOVI / PLASTERBOARD WORKS	€
9.	TERMO-AKUSTIČNO-IZOLACIONI RADOVI / THERMAL AND SOUNDPROOFING WORKS	€
10.	PODOPOLAGACKI RADOVI / WOOD FLOORING WORKS	€
11.	KERAMIČARSKI RADOVI / TILING WORKS	€
12.	RADOVI VANJSKOG POPLOČANJA / SITE TILING WORKS	€
13.	LIMARSKI RADOVI / SHEET METAL WORKS	€
14.	MONTAŽERSKI RADOVI / ASSEMBLY WORKS	€
15.	TESARSKI I STOLARSKI RADOVI - VANI RESTARUATORSKI RADOVI / WOODWORKING - OUTSIDE RESTORATION WORKS	€
16.	BETONSKI ELEMENTI - VANI RESTAURATORSKI RADOVI / CONCRETE ELEMENTS - OUTSIDE RESTORATION WORKS	€
17.	METALNI ELEMENTI - VANI RESTAURATORSKI RADOVI / METAL ELEMENTS - OUTSIDE RESTORATION WORKS	€
18.	KROVNI I FASADNI ETERNIT RESTAURATORSKI RADOVI / ROOF AND FACADE ETERNITE RESTORATION WORKS	€
19.	FASADERSKI RADOVI RESTAURATORSKI RADOVI / FACADE WORKS RESTORATION WORKS	€
20.	UNUTRAŠNJI MALTERI NA ZIDOVIMA I STROPOVIMA RESTAURATORSKI RADOVI / PLASTER ON INTERNAL WALLS AND CEILINGS RESTORATION WORKS	€

21.	METALNI ELEMENTI - UNUTRA RESTAURATORSKI RADOVI / METAL ELEMENTS - INSIDE RESTORATION WORKS	€
22.	STOLARIJA - UNUTRAŠNJA - POSTOJEĆA RESTAURATORSKI RADOVI / CARPENTRY - INSIDE - EXISTING RESTORATION WORKS	€
23.	STOLARIJA - UNUTRAŠNJA - NOVE POZICIJE / CARPENTRY - INSIDE - NEW ELEMENTS	€
24.	HORTIKULTURA / LANDSCAPING	€
25.	RAZNI RADOVI / MISCELLANEOUS WORKS	€
	NEPREDVIĐENI RADOVI / UNACCOUNTED WORKS (8%)	€
ZBIRNO RADOVI / ALL WORKS		€

VODOVOD I KANALIZACIJA / PLUMBING		
B-3.1	VANJSKA HIDRANTSKA MREŽA / OUTER HYDRANT NETWORK	€
B-3.2	UNUTRAŠNJA HIDRANTSKA MREŽA / INTERIOR HYDRANT NETWORK	€
B-3.3	VODOVOD / WATER SUPPLY	€
B-3.4	KANALIZACIJA / SEWERAGE	€
B-3.5	OBORINSKA KANALIZACIJA / STORM SEWERAGE	€
	NEPREDVIĐENI RADOVI / UNACCOUNTED WORKS (10%)	€
ZBIRNO RADOVI / ALL WORKS		€

ELEKTROINSTALACIJE / ELECTRICAL INSTALLATION		
I	JAKA STRUJA / STRONG CURENT	€
II	UZEMLJENJE I GROMOBRANSKA INSTALACIJA / GROUNDING AND LIGHTNING PROTECTION INSTALLATION	€
III	ELEKTROINSTALACIJA SLABE STRUJE	€
IV	VANJSKA RASVJETA/OUTDOOR LIGHTING	€
	NEPREDVIĐENI RADOVI / UNACCOUNTED WORKS (10%)	€
ZBIRNO RADOVI / ALL WORKS		€
		131.853,87

MAŠINSKE INSTALACIJE / MECHANICAL INSTALLATION		
1	UKUPNO "KOTLOVNICA " / TOTAL "BOILER ROOM"	€
2	UKUPNO "VENTILOKONVEKTORI" / TOTAL "FAN CONVECTORS"	€
3	UKUPNO "RADIJATORI" / TOTAL "RADIATORS"	€
4	UKUPNO "VENTILACIJA KOTLOVNICA" / TOTAL "BOILER ROOM VENTILATION"	€
5	UKUPNO "KLIMA ZA SERVER SOBU" / TOTAL "AIR CONDITIONING FOR THE SERVER ROOM"	€

6	UKUPNO "DIZALICA TOPLINE" / TOTAL "HEAT CRANK"	€
7	VERTIKALNA INVALIDSKA PLATFORMA / Vertical disabled platform	€
	NEPREDVIĐENI RADOVI / UNACCOUNTED WORKS (10%)	€
	ZBIRNO RADOVI / ALL WORKS	€
	UKUPNO / TOTAL	€
	PDV / VAT (20%)	€
	UKUPNO SA PDV / TOTAL WITH VAT	€