

RECYCLING CENTER BLAZEVO					
PRICED BILL OF QUANTITIES					
TELEPHONE INSTALLATION WORKS					
Item	DESCRIPTION OF WORKS	UoM	QTY	Unit price	Total
SERVICE TELEPHONE CABLE					
GENERAL TERMS AND CONDITIONS					

Build, deliver, and transport all necessary materials and perform works on TT installations of the residential building all in accordance with the provided main design, technical description, technical conditions, priced bill of quantities and drawings.

The works are to be performed by the workforce of the qualifications appropriate to the type of work.

Work and material to be paid according to unit prices under items from this bill of quantities, with all the necessary mounting and installation material, transport costs (relating to delivery of materials to the construction site), inspection and testing of final installations and their commissioning, final works relating to landscaping and restoring to the previous condition, as well as other ancillary works required to perform and complete all works referred to in this bill of quantities.

Due to the laying of the service cable into the existing cable canals, as well as placing of conditional new TT chamber on the route of the existing canals, all works on that section of the route are to be carried out by manual excavation and with expert oversight by a person from Telekom Serbia.

1 MATERIAL					
1.1	Holder for 2 modules	pcs	1.00		
1.2	Disconnection module	pcs	1.00		
1.3	Switching module	pcs	1.00		
1.4	PE tubes fi 50	m	320.00		
1.5	Steel galvanized tube fi 50	m	2.00		
1.6	Cable TK 59 5x4x0,6 GM	m	120.00		
1.7	Cable TK 59 3x4x0,6 GM	m	35.00		
1.8	Cable P/F 16 mm2	m	15.00		
1.9	Cabinet IROS I	pcs	1.00		
1.10	Cabinet ITO LI	pcs	1.00		
1.11	Attention tape	m	155.00		
1.12	Coupling connectors	pcs	10.00		
1.13	Pipe earth rod 2m in length and 76.1mm in diameter	pcs	1.00		
1.14	Fe Zn 25x4mm	m	10.00		
TOTAL MATERIAL					
2. CONSTRUCTION WORKS					
2.1	Machine excavation of ditch of dimensions 0,4x0,8 m in the ground up to category III along the new route	m	7.00		
2.2	Manual excavation of ditch of dimensions 0,4x0,8 m in the ground up to category III along the new route	m	52.00		
2.3	Backfilling of the ditch of dimensions 0,4x0,8 m with compacting in layers	m	57.00		
2.4	Placing of PVC shield	m	20.00		
2.5	Laying of 1 PE/PVC tube up to f 50 mm into the excavated ditch	m	320.00		
2.6	Sealing of tubes up to Fi 50mm	pcs	4.00		
2.7	Placement of concrete pole or metal plate for marking the cable route	pcs	5.00		
TOTAL CONSTRUCTION WORKS					
3. LAYING OF CABLES					
3.1	Insertion of cables of capacity of 5x4 into the tubes of service canal and on crossings below the street (with cutting and finishing of cable end)	m	155.00		
TOTAL LAYING OF CABLES					
4. INSTALLATION WORKS					
4.1	Making of the straight and branching extension on the cable with thermal plastic insulation of wires in outlet distribution cabinet, capacity 5x4	pcs	1.00		
4.2	Installation of an empty free standing cross-connection cabinet IRO - 1 with delivery and installation of the concrete base	pcs	1.00		
4.3	Installation of connection cabinet type ITO I	pcs	1.00		
4.4	Mounting of holder for 2 modules	pcs	1.00		

Item	DESCRIPTION OF WORKS	UoM	QTY	Unit price	Total
4.5	Placing of pairs on the module 10x2 on the switchboard with installation of modules - calculation per 10x2 module.	pcs	2.00		
4.6	Driving the earth electrode into the ground of category III and IV and connecting it to the earthing FeZn tape	pcs	1.00		
4.7	Laying of earthing FeZn tape into the ditch and connecting it to the busbar (excl excavation)	m	10.00		
TOTAL INSTALLATION WORKS					
5. MEASUREMENTS					
5.1	Electrical measurements on network cables for xDSL according to instructions (own weakening, attenuation at the near end, broadband noise) with measurement protocol	par	10.00		
5.2	Final electrical testing (break, contact and pair connecting order) on network cables	par	10.00		
5.3	Electrical measuring of resistance of operational and protective earthing and preparation of measurement protocol	pcs	1.00		
5.4	Electrical measuring with testing on subscriber cables of local networks (according to ZJPTT regulations) prior to laying of cables, capacity 5x4	drum	1.00		
5.5	Electrical measuring with testing on subscriber cables of local networks (according to ZJPTT regulations) prior to laying of cables, capacity 1x4	drum	1.00		
5.6	Electrical measuring of resistance of operational and protective earthing and preparation of measurement protocol	pcs	2.00		
TOTAL MEASURING:					
6. OTHER WORKS					
6.1	Geodetic survey with mapping	flat r.	1.00		
6.2	loading and removal of excess soil and other material	m 3	7.20		
6.3	Preparation of as-built technical documentation	flat r.	1.00		
6.4	Reporting and inspection of installation by the competent department of Telekom Serbia	flat r.			
6.5	Drilling under the surfaces up to 6 m wide and fitting of tubes, with preparatory works. This item is to be used if there is no possibility of passing the cables through the existing tubes Ø110 and Ø40 (below the road).	m	9.00		
Total OTHER WORKS:					
SUMMARY					
1. MATERIALS					
2. CONSTRUCTION WORKS					
3. LAYING OF CABLE					
4. INSTALLATION WORKS					
5. MEASURING					
6. OTHER WORKS					
TOTAL FOR TT SERVICE:					