

**Przykładowe karty kosztorysowe z badania realizowanego w 2020 roku oraz wzór kwestionariusza
średnich stawek godzinowych w budownictwie**

Fragment przedmiaru dla domu jednorodzinnego

7.2 Mechanical Installations - Heating and hot water supply							
72.aa	Install and commission gas-fired 32kW wall mounted fan-assisted condensing boiler, connecting to, and including, inlet/exhaust flue and pipework	Nr	1	#ADR!	#ADR!		-
72.ab	15mm Polyethylene (PE-X) piping from boiler hot and cold services to sanitary fixtures and fittings complete with all bends, couplers, valves, brackets etc as appropriate	m	84	#ADR!	#ADR!	-	-
72.ac	22mm Polyethylene (PE-X) piping for flow and return to boiler	m	18	#ADR!	#ADR!	#ADR!	#ADR!
72.ad	Wall mounted double-panel double convector steel radiator 600 x 1200mm white; 7324Btu, 2146W output, including thermostatic valve and manual control valve; including connection to pipework	Nr	10	#ADR!	#ADR!		-
			TOTAL 7.2		#ADR!		#ADR!
7.3 Mechanical Installations - Ventilation							
73.aa	Form a 150mm diameter aperture in 350mm external cavity wall for venting kitchen beside double door. Supply and install 150mm dia x 350mm PVCu pipe for extractor fan (Note: extractor fan priced seperately)	Nr	1	#ADR!	#ADR!	-	-
73.ab	Form a 100mm diameter aperture in 350mm external cavity wall for venting en-suite. Supply and install 100mm dia x 350mm PVCu pipe for extractor fan (Note: extractor fan priced seperately)	Nr	3	#ADR!	#ADR!	-	-
73.ac	Supply and install new 100mm extractor fan; (c.20Ltr/sec) connect to ducting and electrics and make good wall finishes on completion of work element	Nr	3	#ADR!	#ADR!	-	-
73.ad	Supply and install new 150mm extractor fan; (c.60Ltr/sec) connect to ducting and electrics and make good wall finishes on completion of work element	Nr	1	#ADR!	#ADR!	-	-
			TOTAL 7.3		#ADR!		-
			TOTAL 7		#ADR!		#ADR!

Fragment przedmiaru dla budynku apartamentowego

	Item specification	Unit	Quantity	Sub-component Rate	Sub-component price	2020 Unit price	2020 Total price
D0 0	1. Earthworks						
D0 1	Excavation of great volume, assigned in general to specialized companies; this group includes the earthworks related to fill excavations for building as well as the required building site facilities; the earthworks carried out by the masonry contractor are not included here. (loose ground, with 25% breaking up)						
	Excavating of topsoil; 210 - 300mm in depth	m3	170				0,00
S1	<i>Top soil machine scraping, horizontal surfaces or slope land up to 1:4. Theoretical bill of quantities volume, (in place) thickness 21 to 30 cm , including loading on vehicle.</i>	m3	170,00		0,00		
S2	<i>Transportation, bills of quantities by theoretical volume, 5 to 50 m and unloaded on the building site premises (theoretical volume)</i>	m3	170,00		0,00		
	<i>item total</i>	m3	170,00	0,00	0,00		
	Excavating; up to 2.5m in depth	m3	1 330				0,00
S1	<i>Machine excavation works, horizontal surfaces or slope land up to 1:3. Unshielded excavations, up to 2,50m in depth. Including loading on vehicle.</i>	m3	1 330,00		0,00		
S2	<i>Compaction of the excavation bottom.</i>	m2	570,00		0,00		
S3	<i>Transportation, bills of quantities by theoretical volume, 5 to 50 m and unloaded on the building site premises (theoretical volume)</i>	m3	200,00		0,00		
S4	<i>Transport of surplus earth to an external site, with 5 km range maximum, including disposal taxes, bill of quantities: theoretical volume</i>	m3	1 130,00		0,00		
	<i>item total</i>	m3	1 330,00	0,00	0,00		
	Slope protections works (slope 3:2); 0.5mm plastic sheets	m2	200				0,00
S1	<i>0.5 mm plastic sheets</i>	m2	200,00		0,00		
	<i>item total</i>	m2	200,00	0,00	0,00		
	Backfilling against walls below ground level	m3	280				0,00
S1	<i>Reclaiming the soil disposed of, through 30 cm layer compaction. (Reclaiming, loading, placing)</i>	m3	200,00		0,00		
S2	<i>Supplying, transporting and setting clean materials, crusher-run aggregate size 16 to 32 mm for backfilling.</i>	m3	80,00		0,00		
	<i>item total</i>	m3	280,00	0,00	0,00		
	TOTAL 1						0,00

Fragment przedmiaru dla budynku biurowego

8. Electrical Installations					
80.aa	Transformer; 11000/433v; oil filled; natural cooling; gauges and ancillaries; HV and LV terminations; 500kVA	Nr	1		-
80.ab	Stand-by generator; packaged unit; water cooled diesel engine; battery charge alternator and starter motor; 24-hour capacity storage tank; anti-vibration mountings; 150 kVA	Nr	1		-
80.ad	Busbar trunking with copper conductors; TP&N; aluminium housing; earth continuity; insulation; trunking with ancillaries; fire barrier and tap-off unit; 400 amp	m	15		-
80.ae	Cable trunking; twin compartment; PVC; white with cover and couplings in running length; including angles and end caps; 100 x 25mm	m	900		-
80.af	PVC insulated sheathed cable; 300/500-volt grade; drawn into conduit clipped to structure; 2.5	m	450		-
80.ag	Plateswitches; box; surface mounted; 3-gang 2-way screwless; brushed stainless steel	Nr	30		-
80.ah	Surface mounted; modular luminaires 600 x 600mm; Philips CoreLine RC125b led panel, 4000K or similar; 300lx, set in ceiling grid	Nr	90		-
			TOTAL 8		-
9. Drainage System					
90.aa	150mm bed and surround in pea shingle and 150mm covering of pea shingle to pipes; 110mm dia, 450mm wide (allow a total of 0.135m ³ pea shingle per m)	m	20		-
90.ab	PVCu pipes; OsmaDrain or similar; 110mm dia soil waste pipework complete with accessories including connectors, bends, access doors, branches etc; fixing with standard clips	m	78		-
			TOTAL 9		-

Appendix A – Proposed labour rate tab in 2021 pricing questionnaire



Hourly labour rate

Trade	Gross pay (NC per hour)
General labourers, unskilled	
Bricklayer, skilled	
Plumber, skilled	
Carpenter, skilled	
Structural steel worker, skilled	
Electrician, skilled	
Machine (equipment) operator, skilled	



To facilitate validation, participants are required to provide seven hourly gross labour rates for a variety of trades. The methodology used reflects that used in the International Comparison Programme (ICP) and is well established. Definitions of trades and examples of tasks undertaken for each trade are provided below. Participants should provide gross pay.

	General labourers, unskilled	Bricklayer, skilled	Plumber, skilled	Carpenter, skilled	Structural steel worker, skilled	Electrician, skilled	Machine (equipment) operator, skilled
General definition	Performs routine tasks in connection with building construction and demolition work	Lays bricks, pre-cut stones and other types of building blocks in mortar to construct and repair walls, partitions, arches and other structures	Assembles, installs, repairs and maintains pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment	Cuts, shapes, assembles, erects, maintains and repairs various types of structures and fittings made from wood and other materials	Assembles, erects and dismantles structural metal frames of buildings and other structures	Installs, maintains and repairs electrical wiring systems and related equipment and fixtures	Operates machines, such as bulldozers, excavators and front-end loaders, to excavate, grade, level, smooth and compact earth or similar materials
Example tasks (a)	(a) cleaning used building bricks and doing other simple work on demolition sites	(a) laying stone, brick and similar building blocks to construct or repair walls, partitions, fireplaces and other structures such as smokestacks, furnaces, converters, kilns and ovens, piers and abutments	(a) measuring, cutting, threading, bending, jointing, assembling and installing, maintaining and repairing pipes, fittings and fixtures of drainage, heating, water supply and sewerage systems	(a) making, altering and repairing structural and other woodwork at a workbench and on a construction site	(a) marking metal framework as a guide when drilling, cutting, and shaping them for use in buildings and other structures	(a) installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings and other structures	(a) operating and monitoring excavating machinery equipped with moveable shovel, grab-bucket or dragline bucket, to excavate and move earth, rock, sand, gravel or similar materials
Example tasks (b)	(b) mixing pouring and spreading materials such as concrete, plaster and mortar	(b) laying footpaths, kerbs and pavements	(b) installing gas appliances, dishwashers and water heaters, sinks and toilets using hand and power tools	(b) constructing, erecting and installing heavy-framed wooden structures on building sites	(b) drilling, cutting and shaping structural steel in a workshop	(b) examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation	(b) operating and monitoring machinery for digging trenches for sewers, drainage, water, oil, gas or similar pipelines
Example tasks (c)	(c) digging and filling holes and trenches using hand held tools	(c) laying bricks or other masonry to build patios, garden walls and other decorative installations	(c) laying clay, concrete or cast-iron pipes in ditches to form sewers, drains or water mains, or for other purposes	(c) fitting, assembling and altering internal and external fixtures of buildings, such as walls, doors, door and window frames, facings and panelling	(c) erecting steel framework for buildings, bridges and other constructions	(c) planning layout and installation of electrical wiring, equipment and fixtures, based on job specifications and relevant standards	(c) operating and monitoring machinery equipped with concave steel blade to move, distribute and level earth, sand, snow and other materials
Example tasks (d)	(d) spreading sand, soil, gravel and similar materials		(d) inspecting, examining and testing installed systems and pipes, using pressure gauge, hydrostatic testing, observation or other methods		(d) assembling and erecting the framework and other metal parts of structures	(d) inspecting electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair	(d) operating and monitoring equipment to remove sand, gravel and mud from bottom of body of water
Example tasks (e)	(e) loading and unloading construction materials, excavated material and equipment and transporting them around construction sites using wheelbarrows, hods and hand trucks				(e) shaping and fitting structural-steel plates of ships under construction or repair	(e) selecting, cutting and connecting wire and cable to terminals and connectors	(e) operating and monitoring machines for hammering wooden, concrete or steel piles into ground
Example tasks (f)	(f) cleaning work sites and removing obstructions				(f) riveting structural-metal members by hand, machine or pneumatic riveter	(f) measuring and laying out installation reference points	(f) operating and monitoring power roller to compact and smooth layers of materials in making roads, pavements and similar work
Example tasks (g)						(g) positioning and installing electrical switchboards	(g) operating and monitoring machines which spread and smooth concrete or bituminous or tar preparations to construct roadways, roads or similar surfaces
Example tasks (h)						(h) testing continuity of circuit	