

## W23 BILL OF QUANTITIES

### BILL OF QUANTITIES PUMP TRACK

I. LANDSCAPING OF THE ACCESS PATH					
No.	Description of works		quantity	unit rate	amount (€)
1.	Clearing, leveling and compaction of the existing gravel soil to a designed level at the planned access path location.	Lump sum			
2.	Supply, delivery and installation of concrete pavers (a combination of colours as per the design specifications), 10x10x6(8)cm on a compacted sand 5 cm base layer also included in this item. Calculation per m <sup>2</sup> of placed pavers.	m <sup>2</sup>	44		
3.	Supply, delivery and installation of concrete splayed curb stones 10x50x20cm(2 or 3 cm splay) on a concrete base. Connections to be grouted and slightly impressed. The price also includes the curb foundation excavation and preparation of a MB30 concrete base as per the design detail drawing.	m'	46.6		
LANDSCAPING OF THE ACCESS PATH TOTAL €					
II. PROTECTION OF THE PUMP-TRACK					
No.	Description of works		quantity	unit rate	amount (€)
4.	Spreading and leveling of humus over the hard shoulder.	m <sup>2</sup>	394.00		
5.	Supply, delivery and placement of a grass carpet soil coverage	m <sup>2</sup>	394.00		
PROTECTION OF THE PUMP-TRACK TOTAL €					
III. GREENSCAPING WORKS					
No.	Description of works		quantity	unit rate	amount (€)
6.	Supply and planting of evergreen oak seedlings ( <i>Quercus ilex</i> ) with the seedlings delivery and manual transport up to the planting point. At the points marked in the design pits 0.80x0.80 m are to be excavated. Sterile soil and waste to be evacuated from the pit. Planting with a medium of humus, peat and sand mixed in 6:3:1 ratio. At planting 2/3 of the pit shall be backfilled with the mix, while the upper 1/3 shall be enriched with addition of a peat fertilizer of 3 kg per seedling. Water well upon planting (the price shall include supply of peat and sand). Calculation per piece.	pc.	8.00		
GREENSCAPING WORKS TOTAL €					

IV. SUPPLY OF BENCHES					
	Supply and installation of wooden benches	pc.	10		
	<b>SUPPLY OF BENCHES TOTAL</b>				
	<b>TOTAL ARCHITECTURAL DESIGN WORKS €</b>				

II. PREPARATORY AND CIVIL WORKS – CONSTRUCTION OF PUMP-TRACK COURSE					
No.	Description of works		quantity	unit rate	amount (€)
1.	Geodetic marking and pegging out of the planned pump-track course and access path and survey follow-up during construction.	LS			
2.	Mechanical excavation of the material at the site location with disposal at the location instructed by the Supervision	m <sup>3</sup>	139.80		
3.	Compaction and leveling of the subbase of III category soil inside the excavation at the track course.	m <sup>2</sup>	698.00		
4.	Supply, delivery and installation of a gravel bearing course granulation 0-64mm, 20 cm thickness	m <sup>3</sup>	139.80		
5.	Supply, delivery and installation of gravel material granulation 0-32mm for the course preparation	m <sup>3</sup>	425.60		
6.	Supply and delivery of asphalt mixture AC 8 surf B70/100 A5 in a heated sylos	t	70.00		
7.	Construction of asphalt pump track course upon a pre-prepared plateau, including the leveling, rough processing, rough compacting, manual finishing, final compacting, watering, manual asphaltting as per the design with 60° slope, 4-6 cm thick. Calculation per m2 (of asphalted area ). Including an information board.	m <sup>2</sup>	304.00		
	<b>PREPARATORY AND CIVIL WORKS TOTAL €</b>				

II. STORMWATER SEWERAGE					
No.	Description of works		quantity	unit rate	amount (€)
8.	Full implementation of stormwater sewerage with DN 160 mm PVC pipes including trench excavation, sand bedding and backfilling	m <sup>1</sup>	51.29		
9.	Supply and installation of concrete manholes DN 50 cm, depth 100 cm, including concrete perforated covers, earth works and backfilling with gravel aggregate 16-32 mm	pc.	4.00		
	<b>STORMWATER SEWERAGE WORKS TOTAL €</b>				
	<b>TOTAL CIVIL WORKS DESIGN WORKS €</b>				

III. ELECTRICAL INSTALLATION WORKS					
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No.	Description of works		quantity	unit rate	amount (€)
1.	Delivery and installation of a LED reflector 100W, 8000lm-6500K, with IP66 protection as a minimum - complete	pc.	3		
2.	Delivery and installation of a connection board RP-4 MINI-complete.	pc.	3		
3.	Delivery and installation of a fuse FRA 16/10A-complete.	pc.	3		
4.	Supply and installation of a light post cable PP00-Y, 3x1.5mm <sup>2</sup> , connection of the cable onto the RP-4 board and the reflector connector, lenght cca 4 m - complete.	pc.	3		
<b>TOTAL ELECTRICAL INSTALLATION WORKS</b>			€		

	<b>TOTAL ARCHITECTURAL DESIGN WORKS €</b>	
	<b>TOTAL CIVIL WORKS DESIGN WORKS €</b>	
	<b>TOTAL ELECTRICAL INSTALLATION WORKS €</b>	
	<b>TOTAL FOR THE PUMP TRACK</b>	

## BILL OF QUANTITIES FOR THE MOUNTAIN BIKE PARK AND VIEWPOINT – REST POINT

No.	Description of works	quantity	unit rate	amount (€)
<b>I</b>	<b>LANDSCAPING ZONE 1</b>			
1.	Clearing of the terrain The item includes removal-cutting down of trees and bushes from the ground foreseen for tracks and hurdles and placement of planned furniture			
	m2	2.000		
2.	Geoditic marking of the terrain The item includes all necessary geodetic works in preparatory stage and works execution such as survey, pegging out, etc.			
	Lump sum			
3.	Mechanical leveling-profiling of the existing terrain			
	m <sup>2</sup>	2.000		
4.	Formation of tracks – out of compacted soil with addition of gravel material granulation 16-32 mm to be leveled and compacted in a 5 cm layer			
	m2	84		
5.	Formation of parking for passangers' vehicles with filling up and compaction of gravel sub base layer of 15 cm			
	m2	125		

6.	Supply, delivery and installation of the designed wooden hurdles for the "mountain bike park"			
		7		
7.	Production, delivery and installation of wooden benches, according to the design detail drawing. Calculation per piece			
	pc.	7		
8.	Supply, delivery and processing of tree logs to serve for bikes parking. Selection of durable wood, minimum 50 cm trunk radius, lenght 1.75 to 2.50 m. The groves of about 8 cm width at a distance of about 50 cm shall be cut into the logs to accommodate bike wheels. All according to the design detail drawing. Calculation per piece			
	pc.	2		
9.	Supply, delivery and installation of a wooden fence along the "Ćira" track. All according to the design detail drawing. Calculation per m of length of installed fence.			
	m'	245		
10.	Supply, delivery and installation of waste bins. All according to the design detail drawing.			
	pc.	3		
	<b>TOTAL</b>			
<b>II</b>	<b>LANDSCAPING ZONE 2-VIEWPOINT</b>			
1.	Geoditic marking of the terrain The item includes all necessary geodetic works in preparatory stage and during the works execution such as survey, pegging out, etc.			
	Lump sum			
2.	Mechanical leveling-profiling of the existing terrain			
	m <sup>2</sup>	540		
3.	Construction of tracks 0.90 m width at the designed locations. The item includes minimum manual ground leveling along the track route and compaction of soil. Calculation per m of length of fully completed track.			
	m <sup>2</sup>	75		
4.	Forming of an earth hurdle type "pump track" out of the existing elevation along the route "Ćira", length up to 18 m with soil compaction			
	m <sup>2</sup>	30		
5.	Dry construction of a parapet wall from untreated stone. The walls to be on average 40-50 cm wide and up to 0.60 m high. All according to the design detail drawing. The item includes the supply and delivery of all necesasry material. Calculation per m of length of the completed wall.			
	m'	25		
6.	Supply, delivery and installation of a wooden shelter of 6m <sup>2</sup> footprint coverage. The shelter is mounted with metal anchors onto the previously			

	prepared reinforced concrete slab. All according to the design detail drawing. Calculation per piece of the completed shelter.			
	pc	1		
7.	Production, delivery and installation of wooden benches, according to the design detail drawing. Calculation per piece			
	pc	4		
8.	Supply, delivery and processing of tree logs to serve as bikes parking. Selection of durable wood, minimum 50 cm trunk radius, lenght 1.75 to 2.50 m. The groves of about 8 cm width at a distance of about 50 cm shall be cut into the logs to accommodate bike wheels. All according to the design detail drawing. Calculation per piece			
	pc.	2		
9.	Supply, delivery and installation of a wooden fence around the view point. All according to the design detail drawing. Calculation per m of length of installed fence.			
	m'	20		
10.	Supply, delivery and processing of tree logs to serve for sitting. Selection of durable wood, minimum 40-50 cm trunk radius, lenght 0.50 m. All according to the design detail drawing. Calculation per piece			
	pc	5		
11.	Supply, delivery and processing of tree logs and planks to serve for production of a table. Selection of durable wood, minimum 50 cm trunk radius, lenght 0.70-0.80m. All according to the design detail drawing. Calculation per piece of completed table			
	pc	1		
12.	Supply, delivery and installation of waste bins. All according to the design detail drawing.			
	pc	2		
	<b>TOTAL</b>			
<b>III</b>	<b>ROUTE LANDSCAPING</b>			
1.	Clearing of vegetation along subject route part consisting of overgrown wild bushes with mowing of overgrown grass and creepers (if applicable) The item includes the route of the old railway from the junction with the road from "Pavlović" motel up to the old railway station Sutorina. The route length is 5453 m.			
	m'	5.453		
2.	Cleaning of a water culvert The item includes removal of vegetation, deposits and collapsed stone.			
	pc.	10		
3.	Collection and transport of debris and waste deposited along the route			
	m <sup>3</sup>	20		

4.	Leveling of the terrain along the "Ćira" track between the two junctions with the roads connecting the route with the Adriatic road. The item includes mechanical leveling – profiling of the existing route. 1.300m x 3m			
	m <sup>2</sup>	3.900		
5.	Filling up of a part of the route at the selected points with gravel material granulation 0-32.5 mm in a layer of average thickness d= 15 cm. The item includes supply, delivery, spreading and compaction of material as required			
	m <sup>2</sup>	1.100		
	<b>TOTAL</b>			
	<b>S U M M A R Y</b>			
	<b>LANDSCAPING ZONE 1 - MOUNTAIN BIKE PARK</b>			
	<b>LANDSCAPING ZONE 2 - VIEWPOINT/REST POINT</b>			
	<b>ROUTE LANDSCAPING - RECREATIONAL BIKING TRAIL</b>			
	<b>TOTAL FOR THE MTB PARK AND VIEWPOINT-REST POINT</b>			

## **BILL OF QUANTITIES FOR THE RAILWAY ROAD (FROM THE MAIN ROAD UP TO THE OLD SUTORINA RAILWAY STATION)**

<b>No.</b>	<b>Description of works</b>		<b>quantity</b>	<b>unit rate</b>	<b>amount (€)</b>
1.	Supply, delivery, filling and compaction of gravel base course of average thickness 10 cm. The item includes the route leveling by removal of excess material. Calculation per m <sup>2</sup> of filled area.	m <sup>2</sup>	246.00		
2.	Mechanical cutting of the existing asphalt/concrete with manual excavation of bonding between the old and new road surface. Calculation per m <sup>2</sup> of prepared bonding area.	m <sup>1</sup>	15.00		
3.	Preparation of surfaces for asphaltting. The item includes removal of vegetation, cleaning, de-dusting, emulsion spraying and all other preparations for asphalt placement. Calculation per m <sup>2</sup> of prepared area.	m <sup>2</sup>	1585.00		
4.	Supply, delivery and placement of asphalt leveling layer AB - 1. The item includes leveling, distribution and compaction of AB – 11 leveling course. Calculation per tone of placed material.	t	63.72		
5.	Supply, delivery and placement of wearing asphalt course AB-11, with thickness of d = 4 cm. Calculation per m <sup>2</sup> of asphalted area.	m <sup>2</sup>	1831.00		

	<b>TOTAL WORKS</b>	<b>€</b>	
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## BILL OF QUANTITIES FOR THE CATERING FACILITY NEAR THE PUMP TRACK

No.	Description of works	quantity	unit rate	amount (€)
	<b>PHASE I</b>			
	<b>CIVIL AND BUILDING WORKS</b>			
I	<b>EARTH WORKS</b>			
1.	Wide excavation in III and IV category soil with truck onload and transport to the nearest disposal site. Calculation per m <sup>3</sup> of excavated natural materail.			
	m <sup>3</sup>	13.20		
2.	Leveling and compaction of subbase (bedding) with vibration plates Calculation per m <sup>2</sup> of prepared bedding.			
	m <sup>2</sup>	37.73		
3.	Supply, delivery, distribution, leveling and compaction of gravel base of thickness d=10cm. Calculation per m2 of placed gravel base.			
	m <sup>2</sup>	31.77		
4.	Supply, delivery and installation of waterproof geotextile in the trench with sea pebbles at the bottom, up to 20 cm height sideways. Calculation per m2 of installed geotextile			
	m <sup>2</sup>	5.01		
5.	Supply, delivery, filling and leveling of sea or river pebbles with granulation up to Ø20mm in a 20 cm thick layer inside the trench. Calculation per m3 of installed pebbles.			
	m <sup>3</sup>	0.73		
	<b>TOTAL EARTH WORKS</b>			
II	<b>CONCRETE AND REINFORCEMENT WORKS</b>			
1.	Material supply, delivery an concreting of a RC floor slab 10 cm thickness, concrete mix MB30 inside framework. The slab to be reinforced with mesh MA500/560 in two levels Q188 and the edge beams of 20/30cm with +/-2Ø12 and U RØ8/20 to be calculated within a separate item. At each 2m expansion joints to be made for prevention of cracks. The item includes construction of floor slab edge beams. Calculation per m <sup>2</sup> of concreted slab.			
	m <sup>2</sup>	31.77		
2.	Material supply, delivery an concreting of RC curbs in a box framework with concrete mix MB30. The beam to be reinforced with mesh MA500/560 Q188 to be calculated within a separate item. . Calculation per m' of ready curb.			

	m'	20.06		
	TOTAL CONCRETE AND REINFORCEMENT WORKS			
III	CEMENT WORKS			
1.	Preparation of cement screed d=3cm as per the drawings with microfibers reinforcement. Calculation per m2 of ready screed.			
	m <sup>2</sup>	8.96		
	TOTAL CEMENT WORKS			
IV	REINFORCEMENT FORKS			
1.	Supply, delivery, handling, cutting, bending, placement and installation of mesh reinforcement MA500/560 Q188 in two levels inside the ground slab with 30 cm overlap. Calculation per kg of installed reinforcement mesh.			
	kg	223.60		
2.	Supply, delivery, handling, cutting, bending, placement and installation of reinforcement bars +/-2Ø12 and in RØ8/20 for the egde beams of the slab. Calculation per kg of installed reinforcement bars and ties.			
	kg	207.69		
3.	Supply, delivery, handling, cutting, bending, placement and installation of mesh reinforcement MA500/560 Q188 inside the ground slab with 10/30 cm overlap. Calculation per kg of installed reinforcement mesh.			
	kg	27.27		
	TOTAL REINFORCEMENT WORKS			
V	ERECTION WORKS			
1.	Supply, transport and setting of a used shipping container HC40', dimensions 1219.2cm x 289.6cm upon a concrete base with anchoring. Lump sum.			
	LS			
	TOTAL ERECTION WORKS			
VI	METAL WORKS			
1.	Cutting of openings on a shipping container with dimensions: 600x230cm, 80x210cm and 100x210cm with adequate supports during the larger opening cutting, as per the drawings. Calculation per m' of cut container metal side wall.			
	m'	28.60		
2.	Material supply, delivery and installation – flashing of openings on the shipping container with box profile dimensions 50/75mm and 50/50mm, as per the drawings (the sides and top whereas the bottom to be connected with a steel L profile 50/50mm for keeping shape of the			

	profile during installation and after installation the vertical part of the L profile to be cut off). Calculation per m' of installed profile.			
	a)box profile 50/75mm m'	15.20		
	b)box profile 50/50mm m'	10.20		
	c)"L"and profile 50/50mm m'	7.80		
	TOTAL METAL WORKS			
VII	JOINERY WORKS			
1.	Supply, delivery and installation of 80/100 mm planks, at a 50cm distance or less, with the distance adapted to the openings positions, to carry wallboards. Dry, straight and good quality fir planks with optimum lenght to be fixed. Calculation per m2 of wall.			
	m <sup>2</sup>	76.37		
2.	Supply, delivery and installation of 50/30 mm planks, at a 60cm distance or less, with the distance adapted to the openings positions, to carry wallboards, total thickness 10 cm. Dry, straight and good quality fir planks with optimum lenght to be fixed. Calculation per m2 of wall.			
	m <sup>2</sup>	14.69		
	TOTAL JOINERY WORKS			
VIII	INSULATION WORKS			
1.	Supply, delivery and installation of waterproofing over a prepared cement screed inside the container (masonry works, item 1). Waterproofing to be done with a cold "bitulit" coating and heat-welded "kondor 4". Calculation per m2.			
	m <sup>2</sup>	8.96		
2.	Supply, delivery and installation of stone wool in a form of semi rigid boards, "Vunizol P plus", 10 cm thick, density 75 kg/m3. The wool shall be placed as thermal and sound proofing and fire protection between the wooden planks on the walls and ceilings. Calculation per m2.			
	m <sup>2</sup>	60.62		
3.	Supply, delivery and installation of stone wool in a form of semi rigid boards, "Vunizol P plus", 8 cm thick, density 75 kg/m3. The wool shall be placed as thermal and sound proofing and fire protection between the steel floor substructure bearings. Calculation per m2.			
	m <sup>2</sup>	22.03		
4.	Supply, delivery and installation of stone wool in a form of semi rigid boards, "Vunizol P plus", 5 cm thick, density 75 kg/m3. The wool shall be placed as thermal and sound proofing and fire protection between the wooden planks of the division walls substructure. Calculation per m2.			
	m <sup>2</sup>	11.41		

5.	Supply, delivery and installation of vapour barrier Isoflex type over all stone wall surfaces on the facade walls and ceilings facing inwards. The sheets to be overlapped at the joints by 15 cm. Calculation per m2.			
	m <sup>2</sup>	60.62		
	TOTAL INSULATION WORKS			
IX	DRY INSTALLATION WORKS			
1.	Supply, delivery and installation of OSB boards type 3 thickness 18mm onto a wooden substructure of facade and division walls and ceilings (wherever foreseen by the design) with invisible joints finish. Calculation per m2.			
	m <sup>2</sup>	61.76		
2.	Supply, delivery and installation of OSB boards type 3 thickness 12mm onto the metal floor substructure. Calculation per m2.			
	m <sup>2</sup>	28.33		
3.	Supply, delivery and installation of fireproof dry wall boards Knauf GKF 15 mm over a wooden ceiling substructure in the storage, toilets and toilet walls substructures. The joints to be finished with skimming and bandages as per the manufacturer's instructions. Fireproofing class F 90. Calculation per m2.			
	m <sup>2</sup>	41.71		
4.	Supply, delivery and installation of decking. WPC floor boards 21mm thick to be installed on a prepared wooded substructure which is to be calculated within this item. Calculation per m2.			
	m <sup>2</sup>	15.47		
	TOTAL DRY INSTALLATION WORKS			
X	TILING WORKS			
1.	Supply, delivery and installation of ceramic tiles I class 20x40 cm with ceramic glue and prominent grouting of 2 mm. The tiles to be placed on the storage and toilet floors and toilet walls up to 1.6 m height. Calculation per m2.			
	m <sup>2</sup>	27.95		
	TOTAL TILING WORKS			
XI	IRONMONGERY WORKS			
1.	Production and installation of a single-wing metal door 75x205cm. The door to be made of a steel box profile. The door to be clad on one side with the steel sheet cut out from the container wall in situ for the particular door. The door to be hung on 3 hinges. Door furniture, hinges and a lock with a key cylinder and three keys, as chosen by the designer. Prior to colour coating the metal			

	to be cleaned from dust and corrosion, impregnated and primed, then pre-luted and polished. First metal colour coating to be applied, then luted, polished and coveed with the final colour coating. Calculation per piece.			
	pc.	1.00		
2.	Production and installation of a single-wing metal door 90x205cm. The door to be made of a steel box profile. The door to be clad on one side with the steel sheet cut out from the container wall ibn situ for the particular door. The door to be hung on 3 hinges. Door furniture, hinges and a lock with a key cilinder and three keys, as chosen by the designer. Prior to colour coating the metal to be cleaned from dust and corrosion, impregnated and primed, then pre-luted and polished. First metal colour coating to be applied, then luted, polished and coveed with the final colour coating. Calculation per piece.			
	pc.	1.00		
3.	Door 590/220cm made of Al multi chamber profiles (as selected by the Employer) with thermostop, filling and epdm rubber sealing. Glassing with thermopan glass 4+12+4mm, with low heat transmission index. Permanent sealing with elastic epdm rubber. Allow for a "fold-up" opening completely as per the drawing. The door to be secured with a standard mechanisam for efficient closing from the inside. Finishing (profilation, lock, door furniture, hinges, etc.) as selected by the designer. Calculation per piece.			
	pc.	1.00		
	TOTAL IRONMONGERY WORKS			
XII	CARPENTRY WORKS			
1.	Supply and instalation of an interior door 75/205cm with a door frame, door furniture and lock with key cylinder with three keys. The interior door to be made as follows: the frame to be made of 1 <sup>st</sup> class dry oak (or other wood as selected by the Employer), and the door structure with honeycomb core on both sides to be clad in 4 mm plywood with 1 <sup>st</sup> class oak veneer. The door frame to be installed to the entire wall width and flashed with battens, a lock with two keys and three hinges to be set into one door. The door to be protected with a colourless impregnant, a rubber bouncer to be placed on the floor. A standard mechanism for efficient closing and a lock to be provided. Finishing (veneer, colour, door furniture, etc.) as selected by the designer. The price includes all necessary material, tools and workmanship. Calculation per piece.			
	pc.	1.00		

2.	Material supply, delivery and installation of larch planks 50/80mm, 2.7m and 2.20m long (as per the drawing) which must be properly protected from insects, moisture and sunshine with linseed, teak oil or wax based coating. Calculation per m' of installed plank.			
	m'	10.00		
	TOTAL CARPENTRY WORKS			
XIII	PAINTING WORKS			
1.	Supply of material, preparation, skimming and painting of drywall ceilings in the storage and toilets and toilet walls in semi-dispersive white paint of appropriate quality. The paint to be applied in 2 coatings on prepared surfaces skimmed twice. Calculation per m <sup>2</sup> .			
	m <sup>2</sup>	20.52		
2.	Painting of the shipping container ondulated metal sheets with metal paint. Prior to painting the metal to be de-greased and cleaned with organic dilutants. All metal surfaces to be painted with metal paint in two coatings and colour as selected by the designer. Calculation per m <sup>2</sup> of painted surface			
	m <sup>2</sup>	96.56		
	TOTAL PAINTING WORKS			
I	EARTH WORKS			
II	CONCRETE AND REINFORCED CONCRETE WORKS			
III	CEMENT WORKS			
IV	REINFORCEMENT WORKS			
V	ERECTION WORKS			
	METAL WORKS			
VII	JOINERY WORKS			
VIII	INSULATION WORKS			
IX	DRY INSTALLATION WORKS			
X	TILING WORKS			
XI	IRONMONGERY WORKS			
XII	CARPENTRY WORKS			
XIII	PAINTING WORKS			
	<b>TOTAL PHASE I</b>			
	<b>STREET FURNITURE AND EQUIPMENT</b>			
1.	Supply, delivery and installation of a display fridge with a sink 210x70x85cm. Price per m' of a display fridge.			
	m'	1.80		
2.	Supply, delivery and installation of a rack for 10 bikes with bikes locking feature. Price per piece			
	pc.	1.00		

3.	Supply, delivery and installation of an inverter AC unit. Price per piece			
	pc.	1.00		
	<b>TOTAL STREET FURNITURE AND EQUIPMENT</b>			
	<b>PHASE II</b>			
	<b>CIVIL AND BUILDING WORKS</b>			
I	<b>EARTH WORKS</b>			
	Wide excavation of III and IV category soil with truck onload and transport to the nearest disposal site. Calculation per m <sup>3</sup> of excavated natural materail.			
	m <sup>3</sup>	10.10		
2.	Leveling and compaction of subbase (bedding) with vibration plates Calculation per m <sup>2</sup> of prepared bedding.			
	m <sup>2</sup>	50.85		
3.	Supply, delivery, distribution, leveling and compaction of gravel base with thickness d=10cm. Calculation per m2 of placed gravel base.			
	m <sup>2</sup>	46.46		
4.	Supply, delivery and installation of waterproof geotextile in the trench below the decking with sea pebbles at the bottom, up to 20 cm height sideways. Calculation per m2 of installed geotextile			
	m <sup>2</sup>	60.89		
5.	Supply, delivery, filling and leveling of sea or river pebbles granulation up to Ø20mm in a 20 cm thick layer inside the trench. Calculation per m3 of installed pebbles.			
	m <sup>3</sup>	0.96		
	<b>TOTAL EARTH WORKS</b>			
II	<b>CONCRETE AND REINFORCED CONCRETE WORKS</b>			
1.	Material supply, delivery and concreting of foundation footages supporting the wooden decking substructure and a steel pergola in MB30 concrete with framework as per the design details. Calculation lump sum.			
	Lump sum			
	<b>TOTAL CONCRETE AND REINFORCED CONCRETE WORKS</b>			
III	<b>METAL WORKS</b>			
1.	Material supply, delivery and installation of a pergola made of steel box profiles dimensions: 140x140mm, 80/140mm and 60/100mm. The price includes all material, production, priming and installation. Calculation per m' of installed profile.			

	a) 140/140mm	m'	15.48		
	b) 80/140mm	m'	22.82		
	c) 60/100mm	m'	33.50		
	TOTAL METAL WORKS				
IV	JOINERY WORKS				
1.	Supply, delivery and installation of larch bearing planks (decking substructure) 14/16 cm, at the points defined by the design. Dry, straight and good quality planks to be installed in appropriate length. Calculation per m' of installed planks.				
		m'	31.88		
2.	Supply, delivery and installation of larch substructure planks 4/7 cm, at the points defined by the design. Dry, straight and good quality planks to be installed in appropriate length. The price includes all necessary metal joints. Calculation per m' of installed planks.				
		m'	113.56		
	TOTAL JOINERY WORKS				
V	DRY INSTALLATION WORKS				
1.	Supply, delivery and installation of the floor decking. WPC floor boards 21mm thick to be installed on a prepared wooded substructure. Calculation per m <sup>2</sup> .				
		m <sup>2</sup>	46.46		
	TOTAL DRY INSTALLATION WORKS				
I	EARTH WORKS				
II	CONCRETE AND REINFORCED CONCRETE WORKS				
III	METAL WORKS				
IV	JOINERY WORKS				
V	DRY INSTALLATION WORKS				
	<b>TOTAL PHASE II</b>				
	<b>GREENSCAPING-PHASE III</b>				
1.	Spreading and leveling of humus over the unoccupied part of the plot. Calculation per m <sup>2</sup> of spread material.				
		m <sup>2</sup>	138.25		
2.	Supply, delivery and placement of grass carpet over the surfaces as per the design. Calculation per m <sup>2</sup> of placed grass carpet.				
		m <sup>2</sup>	130.75		
3.	Supply and planting of Bougainvillea seedlings (Bougainvillea sp.) with the seedlings delivery and manual transport up to the planting point. At the points marked in the design pits 0.50x0.50 m are to be excavated. Sterile soil and waste to be evacuated from the pit. Planting with a medium of humus, peat and sand mixed in 6:3:1 ratio. At planting the 2/3 of the pit shall be backfilled with the mix, while the upper 1/3 shall be enriched				

	with addition of a peat fertilizer of 2 kg per seedling. Water well upon planting (the price shall include supply of peat and sand). Calculation per piece.			
	pc.	4.00		
4.	Supply and planting of perennials (Lavandula sp., Santolina sp., etc.) with the seedlings delivery and manual transport up to the planting point. At the points marked in the design pits 0.20x0.20 m are to be excavated. Sterile soil and waste to be evacuated from the pit. Planting with a medium of humus, peat and sand mixed in 6:3:1 ratio. At planting the 2/3 of the pit shall be backfilled with the mix, while the upper 1/3 shall be enriched with addition of a peat fertilizer of 0.50 kg per seedling. Water well upon planting (the price shall include supply of peat and sand). Plan with 8 pcs per m2. Calculation per m2.			
	m <sup>2</sup>	7.50		
<b>TOTAL GREENSCAPING</b>				
<b>WATER SUPPLY AND SEWERAGE</b>				
I	EARTH WORKS			
1.	Manual earth excavation in III and IV category soil for the sewer trench, manhole, water meter box with disposal of excavated earth 60 cm from the excavation edge.			
	m <sup>3</sup>	9.80		
2.	Supply, delivery and installation of sand 10 cm below, around and above the pipe with careful manual compaction.			
	m <sup>3</sup>	2.40		
3.	Backfilling of trenches with excavated material up to the level foreseen by the design with manual compaction as required.			
	m <sup>3</sup>	3.96		
4.	Transport of excess excavated material up to 5 km distance. The item includes on-load and transport to the disposal site.			
	m <sup>3</sup>	5.84		
<b>TOTAL EARTH WORKS</b>				
<b>CONCRETE WORKS</b>				
1.	Supply, delivery and installation of concrete MB 30 into the bottom slab of MH R01 and R02.			
	m <sup>3</sup>	0.60		
2.	Supply, delivery and installation of concrete MB 30 into the MH walls and slabs. The item includes necessary two-sided formwork.			
	m <sup>3</sup>	2.11		
3.	Supply, delivery and installation of cast iron MH covers $\Phi$ 600 M.J6.222(70) - 15 KN			
	pc.	2.00		

4.	Supply, delivery and installation of MH step irons made of steel profile $\phi$ 18 completely according to design and valid technical requirements.			
	pc.	52.00		
	TOTAL CONCRETE WORKS			
III	WATER SUPPLY PLUMBING			
1.	Supply, delivery and installation of PP WSW pipes completely according to design and valid technical requirements. The pipes inside the walls to be insulated with corrugated paper, vertically with felt. The item shall include the insulation material, all necessary off-chiselling, boring, required fittings, couplings and auxiliary material. $\phi$ 20			
	m'	18.00		
2.	Supply, delivery and installation of PEHD WS pipes for pressures up to 10 Bar completely according to design and valid technical requirements. The item shall include the required fittings, couplings and auxiliary material. $\phi$ 20			
	m'	8.00		
3.	Supply, delivery and installation of brass valves inside the water meter box together with the belonging pipework. $\phi$ 20			
	pc.	1.00		
4.	Supply, delivery and installation of brass valves with a washout inside the water meter box together with the belonging pipework.			
	pc.	1.00		
5.	Supply, delivery and installation of a non-return valve inside the water meter box.			
	pc.	3.00		
6.	Supply, delivery and installation of PPR valves with a washout.			
	pc.	1.00		
7.	Supply, delivery and installation of PPR valves with a street cap. $\phi$ 20			
	pc.	3.00		
8.	Supply, delivery and installation of angle EK valves. $\phi$ 20			
	pc.	4.00		
9.	Supply, delivery and installation of a sink free standing hot and cold water tap.			
	pc.	1.00		
10.	Installation of a free standing washbasin tap with lever handle.			
	50 x22 cm pc.	1.00		
	A free standing medical washbasin tap pc.	1.00		

11.	Supply, delivery and installation of a horizontal water meter in a box together with a PVC box and cover. The PVC box dimensions are 50x50x50cm			
	PVC water meter box pc.	1,00		
	Horizontal water meter pc.	1.00		
12.	Connection to the existing WS network. The connection to be made onto the existing DCI DN100 pipeline with a drilling saddle. The item shall include the connection piece together with all material necessary for the connection.			
	pc.	1.00		
	TOTAL WATER SUPPLY PLUMBING			
IV	SANITARY PLUMBING			
1.	Supply, delivery and installation of PVC sewer pipes according to valid technical requirements. The item shall include all necessary fittings, sealants, wall off-chiselling, boring and pipe suspension and fixing material.			
	Ø 200 m'	15.00		
	Ø 160 m'	20.00		
	Ø 110 m'	8.00		
	Ø 75 m'	9.00		
	Ø 50 m'	4.00		
2.	Floor gutter with waterproofing collar, syphon, stainless steel adjustable frame and grid.			
	vertical Ø 75 pc.	2.00		
3.	Production and installation of ventilation cap made of copper tin d = 0.55mm, according to valid technical requirements.			
	Ø 110 pc.	1.00		
	TOTAL SANITARY PLUMBING			
V	SANITARY WARE AND FIXTURES			
1.	Supply, delivery and installation of a console ceramic toilet bowl, colour as selected. Along with the toilet bowl a "Geberit" concealed tank with necessary all fittings to be installed, with a plastic toilet seat and toilet paper box. The item shall include all necessary joinery and sealants.			
	Console toilet bowl with a concealed cistern pc.	1.00		
	Accessible toilet with low tank and grab bars pc.	1.00		
2.	Supply, delivery and installation of a ceramic lavatory, colour as selected, with a chrome plated lavatory syphon. Along with the lavatory, a ceramic floating shelf, a mirror, a towel hanger and soap holder to be installed. The item shall include all necessary joinery and sealants.			
	dim. 22 x 50 cm pc.	1.00		
	Accessible lavatory with grab bars 41 x 50 cm pc.	1.00		
3.	Supply, delivery and installation of an electric undersink water heater. The item shall include chrome plated connection pipes, collars, a safety valve, and other joinery and sealants. The item does not include connecting the heater to the power grid.			

	V= 10 l	pc.	1.00		
	TOTAL SANITARY WARE AND FIXTURES				
VI	SUNDRY WORKS				
1.	Supply, delivery and wall installation of chrome plated access covers to revision sewer pieces - 20 x 20 cm				
		pc.	1.00		
2.	Flushing and disinfection of water supply system with chlorine. The chlorine dosage to be perscribed by an authorized sanitary service officer who shall be fully responsible for disinfection. After disinfection the system to be flushed with pottable water.				
		m'	26.00		
3.	Hydraulic and watertightness testing of the installed sewerage network.				
		m'	41.00		
	TOTAL SUNDRY WORKS				
I	EARTH WORKS				
II	CONCRETE WORKS				
III	WATER SUPPLY WORKS				
IV	SEWERAGE WORKS				
V	SANITARY WARE AND FIXTURES				
VI	SUNDRY WORKS				
	TOTAL WATER SUPPLY AND SEWERAGE WORKS				
	ELECTRICAL INSTALLATION WORKS				
1.	Delivery and installation of plastic ducts Ø100 for power cables				
		m'	6.00		
2.	Delivery and installation of an electrical connection and measurement cabinet with the following equipment: - 5 pc. Cu bar - 1 pc. breaker 40A - 1 pc. 4G40-10-U (in a separate slot) - 1 pc. kWh 3 x 230/400 V 10 ~ 40 A - 3 pc. automatic breaker set 25 A				
		pc.	1.00		
3.	Delivery and installation of a switchgear cabinet with the following equipment: - 1 pc. FID 25/0.3A - 9 pc. automatic breaker 16A - 4 pc. automatic breaker set 10A				
		pc.	1.00		
4.	Delivery of material and installation of feeding lines inside the facility : PP00-y, 5x6mm <sup>2</sup> (meters)- complete				
		m'	5.00		
5.	Delivery of conductor PP-y, 3x1.5mm <sup>2</sup> , appropriate distribution boxes and other				

	necessary material and equipment and installation of lighting feeding. The conductor is laid through plastic cable ducts inside walls and ceilings – complete. Average length is 7.0 m – complete			
	pc.	12.00		
6.	The same, feeding for the garden lighting with conductor PP00-Y 3x1.5 mm <sup>2</sup> complete. Average length is 11.0 m – complete			
	pc.	5.00		
7.	The same, feeding for a single phase socket with conductor PP00-Y 3x2.5 mm <sup>2</sup> complete. Average length is 09.0 m – complete			
	pc.	10.00		
8.	Delivery and installation of a plain switch 10 A 250 V – complete			
	pc.	3.00		
9.	The same, module switch 3M, with a socket 3M, fitting material, mask 3M and three plain switches 10 A 250 V – complete			
	pc.	1.00		
10.	The same, socket 16A-250V 2P+E - complete			
	pc.	2.00		
11.	The same, socket 16A-250V 2P+E with IP44 - complete			
	pc.	2.00		
12.	The same, module switch 4M, with a socket 4M, fitting material, mask 4M and two sockets with earthing 16 A 250 V with IP44 – complete			
	pc.	2.00		
13.	The same, module switch 6M, with a socket 6M, fitting material, mask 6M and two sockets with earthing 16 A 250 V and two sockets without earthing – complete			
	pc.	4.00		
14.	Delivery and installation of various lights (as selected by the architect), together with light bulbs and fitting material – complete (installation only).			
	pc.	16.00		
15.	Installations testing and all necessary measuring and issuance of all test certificates according to valid technical requirements - complete			
	pc.	1.00		
	<b>TOTAL ELECTRICAL INSTALLATION WORKS</b>			
	<b>PHASE I</b>			
	<b>STREET FURNITURE AND EQUIPMENT</b>			
	<b>PHASE II</b>			
	<b>GREENSCAPING</b>			
	<b>WATER SUPPLY AND SEWERAGE WORKS</b>			

	<b>ELECTRICAL INSTALLATION WORKS</b>			
	<b>TOTAL WORKS ON CONSTRUCTION OF A TEMPORARY STRUCTURE WITH A TERRACE</b>			

	<b>S U M M A R Y</b>	
	<b>LANDSCAPING OF THE MOUNTAIN BIKE PARK + VIEWPOINT-REST POINT</b>	
	<b>LANDSCAPING OF THE PUMP TRACK</b>	
	<b>LANDSCAPING OF THE ROAD</b>	
	<b>CONSTRUCTION OF A TEMPORARY STRUCTURE WITH A TERRACE</b>	
	<b>TOTAL</b>	
	<b>VAT 21%</b>	
	<b>G R A N D T O T A L</b>	