**BILL OF QUANTITIES PART I**

**I. PREPARATORY WORKS**

**1. Manual tree cutting, taking out of tree trunk and root and,** diameter up to 50 cm. Tree and branches to be cut, dig the soil around the tree an excavate thetree trunk and root. Tree excavated trunk hole to be filled with soil with compaction. Tree, branches, trunk and root to be loaded into truck and transport to the landfill that shall be defined by Investor, distance up to 15 km.

1. Diameter up to 10 cm.
2. Diameter up to 20 cm.
3. Diameter up to 30 cm,
4. Diameter up to 50 cm.

**TOTAL EURO**

**2. DECONSTRUCTION WORKS**

**1. Careful cleaning of stone paved road from soil. Stone paved road** cleaned by spar, brooms, wire brushes and other tools.

Calculation per m'

**2.Removal of inclined concrete fence,** dimensions 7,0m x 1,0m. Load into the truck and transport to the public landfill.

Calculation per piece

**3. Dismantle kerb from concrete.** Carefully dismantle kerbs, clean and dispose at construction landfill..Debris ( construction waste) to be collected and loaded on truck and transport to dispose at landfill up to 20 km Calculation per m' of kerb

**4.Deconstruction of paths made of asphalt with all** layers, thickness ap to 20cm. Remove all layers. Debris to be collected and loaded on truck and transport to

Calculation per m2

**5. Dismantlement of concrete benches.** Manual dismantlement of concrete benches, debris and other waste material to be collected an loaded on truck and transport to public landfill.

Calculation per piece

**TOTAL EURO**

|  |  |
| --- | --- |
| pcs | 8,00 |
| pcs | 15,00 |
| pcs | 15,00 |
| pcs | 3,00 |
|  |  |
| m2 | 117,00 |
| pcs | 1,00 |
| m' | 1770,00 |
| m2 | 10,00 |
| pcs | 42,00 |
|  |  |

**3. EARTH WORKS**

1. **Supply and spreading of gritting material in a layer up to 3-5cm thickness over earth pathway.**Tampon layer of gritting material spread in layers,

compact and plan well with tolerance along height Calculation of compacted gritting material per me

1. **Mechanical cleaning of terrain and removal of surface layer of soil in thickness up to 20 cm.** Usable humus spread on surrounding grass surfaces , included in price. Surplus of earth load on truck and transport to

public landfill.

Calculation per m2 of terrain

1. **Supply and spreading of gravel in a layer of 10cm thickness on newly formed surfaces.** Tampon layer of gravel to be placed in layers,compacted and well planned to have tolerance per height of +1cm.

Calculation per m2 of compacted gravel

1. **Supply and spreading of gritting material in a layer of 3-5cm thickness over newly formed surfaces.**Tampon layer of gritting material to be spread in layers,

compacted and well planned to have tolerance in height

Calculation of compacted gritting material per m2

**5. Supply, transport and spreading of humus earth along newly made kerbs.** Soil to be shaped with 20% more than needed to ensure designed levels after settlement of structure backfill. Make fine planning and

rain by wooden roller. Calculation per m2 of filled soil

**TOTAL EURO**

**4. CONCRETE WORKS**

1. **Supply, transport and placement of concrete plates of granite-quartz natural surface layer, of dimensions 40x40, 30x30, 30x20, 20x20, 20x10 and 10x10, thickness 6cm*,* in sand.** Concrete plates to be placed in a layer of gritting material and sand in thickness of 6-10cm, with correct levelling and to be placed according to design and provided details. Joints

to be filled with sand and plates to be cleaned. Price Calculation per tn2 of set surface

1. **Supply, transport and installation of concrete roadsides (kerbs),** dimensions 100x20x8cm placed in cement mortar. Price includes excavation of earth.Calculation per m'

|  |  |
| --- | --- |
| m2 | 478,00 |
| m2 | 200,00 |
| m2 | 200,00 |
| m2 | 200,00 |
| m2 | 500,00 |
|  |  |
| m2 | 3010,00 |
| m' | 1800,00 |

**3. Construction of stone for pavement in cement mortar.** Stone to be placed in a layer of cement mortar made with screened sand. When placing stone pavement, take care of correct fall. Joints to be filled

with cement mortar, grouting to be processed and stone cleaned.

Calculation per m2

1. With procurement of pavement stone
2. From the existing pavement stones

|  |  |
| --- | --- |
| m2 | 4,50 |
| m2 | 117,00 |

1. **Supply, transport and installation of concrete plates of granite-quartz natural surface layer, granulation size** max 3mm, thickness of upper layer **10-** 15mm,surface is machineed with fine flushing up to depth of 2mtn. Surface and supporting layers meet the conditions for wear and tear and resistance to freezing according to standard SRPS EN 1338, dimensions 40x40x6cm. Concrete plates should be placed in a layer of sand and gritting material of thickness 6-10cm, with correct levelling and typeset placement according to design and design details. Joints to be filled with sand,

Calculation per m2 of covered surface

1. **Supply, transport and installation of concrete kerbs, dimensions** 100x20x12cm placed in cement mortar.

Calculation per m'

**6. Construction of Reinforced-concrete (supporting) walls MB 25. Make formwork of walls and place reinforced concrete according to the design, design details** and static calcuIations. Concrete to be installed and cared as per procedure. Price includes formwork, Calculation per m3

1. **Supply and installation of ready-made reinforced concrete benches, Type 1. Price includes development of** of shallow foundations made of concrete over the

Calculation per piece

1. **Supply and installation of ready-made reinforced concrete benches, Type 2. Price includes shallow foundation preparation** over the layer of spread gravel.

Calculation per piece

1. **Supply, transport and installation of park benches made of gray casting** with dry fir timber lining according to Investor's choice.

Calculation per piece

**TOTAL EURO**

|  |  |
| --- | --- |
| m2 | 1070,00 |
| m' | 700,00 |
| m3 | 18,00 |
| pcs | 15,00 |
| pcs | 15,00 |
| pcs | 10,00 |
|  |  |

**5. CARPENTRY WORKS**

**1. Supply, transport and installation of wooden beams of fir structure 5/8cm,** final processing for seats in open theater and some benches. Place dry, straight and of good quality fir bars of optimum length. Calculation per m2

1. Benches
2. Amphitheatre

**2. Supply, transport and installation of wooden summer house** dimensions according to design, of dry fir wood. Price includes roof adjustment and bent tile in color as per the choice of Investor, as well as development of footing with anchor steel connector for wooden pillar.

Calculation per piece

**TOTAL EURO   
7. OTHER WORKS**

1. **Supply and installation** of prefabricated stage-platform made of aluminum sections according to drawings of products with platform and complete lighting and sound system. Dimensions of platform are 6.0x6.Gm and height 6m+lm.

Calculation per piece

1. **Manufacturing and installation of fence made of steel sections and steel flat bars.** Fence to be made and installed as per design details and instructions. Joints and weldings to be done ideally, clean and grinded. Before installation, fence should be cleaned from corrosion and dust, grinded and cleaned. Place impregnation, basic color and install fence. After installation, repair basic color, pre-whale and grind and Calculation per m2 of fence

**2.Manufacture and installation of fence made of wrougfht iron.** Fence to be made and installed as per details and instructions given by designer. Some

weldings to be grinded ideally. Before installation, fence to be cleaned from corrosion and dust, put impregnation, basic color and install the fence. After installation, repair basic color, pre whale and grind and color twice with color for metal

Calculation per m2 of fence

**TOTAL EURO**

|  |  |
| --- | --- |
| m2 | 22,00 |
| m2 | 46,00 |
| loom | 1,00 |
|  |  |
| pcs | 1,00 |
| m2 | 20,2 |
| m2 | 4,70 |
|  |  |

**RECAPITULATION:**

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| --- |
| 1. **PREPARATORY WORKS** |
| 1. **DECONSTRUCTION WORKS** |
| 1. **EARTH WORKS** |
| 1. **CONCRETE WORKS** |
| 1. **CARPENTRY WORKS** |
| **7. OTHER WORKS** |
| **TOTAL EURO** |