**Annex** (*English version)*

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| --- | --- | --- | --- | --- | --- |
| **Construction of external water supply networks d= 315 for the facility '' Chisinau Arena Polyvalent ', com. Stauceni, m. Chisinau** | | | | | |
|  |  |  |  |  |  |
| **GENERAL СOST BREAKDOWN**  **Section I - Water Supply D = 315 mm, L = 650 m** | | | | | |
|  | | | | | |
| **No.** | **Description of Works** | **Unit.** | **Volume of Works** | **Estimated cost, Euro** | |
| **Unit Price** | **Total** |
| 1. | Installation of pipe d= 315 atm-10 PE, including:  - development of soil in trenches over rough terrain, soils of 2 categories,  - cutting down and uprooting of trees,  - consolidation bottom of trenches  - installation of reinforced concrete manholes,  - sand beding under pipes,  - laying of water pipes,  - installation of concrete abutments  - installation of valves and control accessories (gate valves, control valves),  - backfilling of trenches,  - purchase and planting of new trees | M | 650 | 222, 23 | 144 449, 50 |
| 2. | Laying of pipe d= 315, by a closed way through a steel sleeve d= 630 mm. including:  - horizontal drilling of a gallery with a diameter of 630 mm,  - the placing of a sleeve from a metal pipe with a diameter of 630 mm,  - installation of water pipes | M | 50 | 367, 82 | 18 391,00 |
| 3. | Working documents for performance of work, including:  - development of project documentation,  - verification and approval of design documentation,  - geodesy, executive topographic survey,  - commissioning of the water pipeline | set | 1 | 18 899,19 | 18 899,19 |
| **TOTAL SECTION I** | |  |  |  | **181 739, 69** |

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| --- | --- | --- | --- | --- | --- |
| **Section II - Water Supply D = 315 mm, L = 1500 m** | | | | | |
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| **Nr.** | **Description of Works** | **Unit.** | **Volume of Works** | **Estimated cost, Euro** | |
| **Unit Price** | **Total** |

| **1** | **2** | **3** | **4** | **5** | **6** |
| --- | --- | --- | --- | --- | --- |
| 1. | Installation of pipe d= 315 atm-10 PE, including:  - cutting of asphalt pavement of roads and driveways  - transportation of construction waste from asphalt paving disassembly,  - trenches excavation,  - soil development by hand,  - compaction of a bottom of trenches,  - sand foundations for pipes,  - installation of reinforced concrete manholes,  - laying of water pipes,  - installation of concrete abutments,  - installation of valves and control accessories (gate valves, control valves),  - backfilling of trenches with compaction,  - restoration of asphalt pavement | М | 500 | 270, 75 | 135 375,00 |
| 2. | Laying of pipes d= 315 atm 10 PE in rough terrain, including:  - cutting of trees,  - development of soil in trenches over rough terrain, soils of 2 nd categories,  - compaction the bottom of the trench,  - sand foundations for pipes  - laying of water pipes  - installation of reinforced concrete manholes,  - installation of concrete abutments,  - installation of shut-off and control valves (gate valves, vent valves),  - backfilling of trenches with compaction  - the cost of planting new trees | М | 950 | 222, 22 | 211 109,00 |
| 3. | Laying of pipe d= 315, by a closed way through a steel sleeve d= 630 mm. including:  - horizontal drilling of a gallery with a diameter of 630 mm,  - the placing of a sleeve from a metal pipe with a diameter of 630 mm,  - installation of water pipes | М | 50 | 367,82 | 18 391,00 |
| 4. | Working documents for performance of work, including:  - development of project documentation,  - verification and approval of design documentation,  - geodesy, executive topographic survey,  - pressure testing of water pipeline,  - commissioning of the water pipeline | set | 1 | 18 911,20 | 18 911,20 |
| **TOTAL SECTION II** | |  |  |  | **383 786,20** |

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| --- | --- | --- | --- | --- | --- |
| **Section III – Waste water sewerage network L = 2890 m** | | | | | |
|  | | | | | |
| **No.** | **Description of Works** | **Unit.** | **Volume of Works** | **Estimated cost, Euro** | |
| **Unit Price** | **Total** |

| **1** | **2** | **3** | **4** | **5** | **6** |
| --- | --- | --- | --- | --- | --- |
| 1. | Laying of waste water sewage d= 500 PP corrugated pipes sn 8, over rough terrain, including:  - cutting down, uprooting trees and shrubs,  - development of soil in trenches, soil 2 nd categories,  - compaction of bottom of trenches,  - sand foundation for pipes,  - installation of sewer manholes,  - laying of sewer pipes,  - leak test of pipes,  - trench backfilling with compaction,  - removal of construction waste (stumps, remains of trees) | M | 800 | 163, 47 | 130 776,00 |
| 2. | Waste water sewage pipes installation d= 600 PP corrugated sn 8 over rough terrain, including:  - cutting down, uprooting trees and shrubs,  - development of soil in trenches, soil 2 nd categories,  - compaction of bottom of trenches,  - sand foundation for pipes,  - installation of sewer manholes,  - laying of sewer pipes,  - leak test of pipes,  - trench backfilling with compaction,  - removal of construction waste (stumps, remains of trees) | M | 1900 | 189,02 | 359 138,00 |
| 3. | Laying waste water sewage pipes d= 600 PP corrugated sn 8 in the area of asphalt surfaces, including:  - cutting of asphalt pavement of roads and driveways  - loading of waste from cutting asphalt into trucks and transportation for recycling,  - development of soil in trenches, soil 2 nd categories,  - compaction of a bottom of trenches,  - sand foundation for pipes,  - installation of sewer manholes,  - laying of sewer pipes,  - leak test of pipes,  - trench backfilling with compaction,  - removal of construction waste | M | 100 | 260, 20 | 26 020,00 |
| 4. | Laying waste water sewage pipes d= 500 PP corrugated sn 8 in a closed way through a steel sleeve d= 820 mm, including:  - drilling a horizontal gallery with a diameter of 820 mm,  - installation of a steel sleeve,  - laying of sewer pipes with a diameter of 500 mm | M | 50 | 521, 08 | 26 054.00 |
| 5. | Laying of the waste water sewerage pipe d= 600 PP corrugated sn 8 in the closed way through a steel sleeve d= 1020 mm, including:  - drilling a horizontal gallery with a diameter of 1020 mm,  - installation of a steel sleeve,  - laying of sewer pipes with a diameter of 600 mm | M | 40 | 633,47 | 25 338.80 |
| 6. | Coordination with ÎM Spaţii Verzi for the construction of the sewer network, cutting down trees and shrubs, purchasing and planting new trees | pcs | 198 | 91,95 | 18 206, 10 |
| 7. | Working documentation for the performance of work, including:  - geodesy, executive topographic survey,  - design,  - commissioning | set | 1 | 18 941, 21 | 18 941,21 |
|  | **TOTAL SECTION III** |  |  |  | **604 474, 11** |
|  | **GENERAL TOTAL**  **I+II+III INCLUDING VAT** |  |  |  | **1 170 000,00** |

**COST OF WORKS WITHOUT VAT 975,000 Euro**

COST OF EXPENSES (supported by SUMMA SRL) 68,250 Euro

**GENERAL REMITTUS WITHOUT VAT 1,043,250 Euro**

TOTAL RATE (for 11 years) 486,503 Euro

**CONTRACTUAL COSTS WITHOUT VAT 1,529,753 Euro**