**LIST OF QUANTITIES OF WORK**

**TO REQUEST THE PRICE OFFER**

**1. Name of the beneficiaries: Mayoralty of Ungheni municipality, IDOMUS COMPANY SRL**

**2. The organizer of the procurement procedure: UNDP Moldova/UE4Moldova Program: Focal Regions**

**3. The object of the procurement:** **Construction of the technological center of innovation and production - IloT Pro Center, Ungheni municipality, Națională street**

|  |  |
| --- | --- |
| **Estimates – offer 2-1-6. Construction of 2 photovoltaic plants** |  |

**Bid currency: USD**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №  crt. | | Standards symbol and resource code | | Works and expenses | | | U.M. | | Quantity according to the project data | | | Estimated value, $ | | |
| Per unit of measure  ————  incl. salariu | | Total  —————  incl. salariu |
|  | |  | | **1. Construction works** | | |  | |  | | |  | |  |
| 1 | | TsA02B | | Manual earth excavation in limited spaces, under 1.00 m or over 1.00 m wide, executed without supports, with a vertical slope, at foundations, canals, basements, drains, twinning steps, in non-cohesive or weakly cohesive soil at depth < 0.75 m middle ground | | | m3 | | 10,080 | | |  | |  |
| 2 | | TsD01B | | Spreading with a shovel the refined soil, in uniform layers, 10-30 cm thick, by throwing up to 3 m from the piles, including crushing the Bulgarians, the soil coming from the middle ground | | | m3 | | 10,080 | | |  | |  |
|  | |  | |  | | |  |  | | |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Social insurance 24%* | | | $ | | |  |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Directing expenses %* | | | $ | | |  |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Quote benefit %* | | | $ | | |  |  | | |  |
|  | |  | | **Total construction works**  **Including salary** | | | $  $ |  | | |  | | |  |
|  | |  | | **2. Installation work**  **2.1. Photovoltaic device** | | |  | |  | | |  | |  |
|  | |  | |  | | |  | |  | | |  | |  |
| 3 | | 11-04-008-03 | | Installation of monocrystalline photovoltaic panel JA Solar JAM72S30-550-MR | | | un | | 96,000 | | |  | |  |
| 4 | | 08-01-101-1 | | Installation of three-phase On-grid inverter R3-50K-G5 | | | un | | 1,000 | | |  | |  |
| 5 | | 11-04-001-03 | | The frame for the apparatus, the area of ​​the machine support, m2, up to: 0.75 | | | un | | 96,000 | | |  | |  |
| 6 | | Market price | | Galvanized metal profile 40x21mm | | | m | | 250,000 | | |  | |  |
| 7 | | 08-02-144-3 | | Connecting wires of conductors or cables to terminals, section up to: 16 mm2 | | | 100 un | | 0,200 | | |  | |  |
| 8 | | Market price | | Conectori standard MC4 Foton pentru sisteme fotovoltaice (set M+F) 1000VDC | | | un | | 20,000 | | |  | |  |
| 9 | | Market price | | Double polypropylene KKX12/8x60 | | | un | | 20,000 | | |  | |  |
| 10 | | Market price | | Double polypropylene SM08080 | | | un | | 20,000 | | |  | |  |
| 11 | | Market price | | Anchor nails M8x160 | | | un | | 185,000 | | |  | |  |
| 12 | | Market price | | Hammer for metal WFOC 4.8x25mm | | | un | | 200,000 | | |  | |  |
| 13 | | Market price | | Aluminum clamp for fixing photovoltaic panels, middle T30 | | | un | | 176,000 | | |  | |  |
| 14 | | Market price | | Aluminum clamp for fixing photovoltaic panels, end Z30 | | | un | | 32,000 | | |  | |  |
| 15 | | Market price | | Galvanized clamp for fixing in profile C, X41 | | | un | | 208,000 | | |  | |  |
| 16 | | Market price | | Grover M8 Profi Box | | | kg | | 1,000 | | |  | |  |
|  | |  | | **Total Utilaj fotovoltaic**  **Inclusiv salariu** | | | $  $ |  | | |  | | |  |
|  | |  | | **2.2. Echipament de curent alternativ si continuu** | | |  | |  | | |  | |  |
| 17 | | 08-03-572-3 | | Cabinet-type execution command block or distribution point (cabinet), mounted on the wall, height and width, mm, up to 600х600  Extruded plastic panel, Degree of protection IP65 ABS 400x600) | | | un | | 1,000 | | |  | |  |
| 18 | | 08-01-066-1 | | Lightning arrester, voltage up to 10 kV (Arrestor OPC-1B 3P) | | | set | | 1,000 | | |  | |  |
| 19 | | 08-03-572-4 | | Cabinet-type execution control block or distribution point (cabinet), mounted on the wall, height and width, mm, up to 1200х1000 (Extruded plastic panel 36 modules, Degree of protection IP65 ABS36MOD) | | | un | | 2,000 | | |  | |  |
| 20 | | 08-03-575-1 | | Device or device dismantled before transport (in ABS36MOD panel) | | | un | | 15,000 | | |  | |  |
| 21 | | 08-01-066-1 | | Lightning arrester, voltage up to 10 kV (DC arrester TRS3-C40-2P 1000VDC) | | | set | | 6,000 | | |  | |  |
| 22 | | 08-03-523-1 | | Fuse, installed on insulating support, current up to 100 A, (Fuse fuse GPV -10x38, 16A) | | | un | | 12,000 | | |  | |  |
| 23 | | 08-03-600-2 | | Meters, mounted on a prepared support, with three phases (Smart three-phase meter) | | | un | | 1,000 | | |  | |  |
|  | |  | | **Total AC and DC equipment**  **Including salary** | | | $  $ |  | | |  | | |  |
|  | |  | | **2.3. Cable networks and accessories** | | |  | |  | | |  | |  |
| 24 | | 08-02-147-2 | | Cable up to 35 kV on buildings and installed gutters, with fixing at bends and at the end of the route, mass 1 m of cable, up to: 2 kg | | | 100 m | | 0,050 | | |  | |  |
| 25 | | Market price | | AC cable, with aluminum wires, PVC insulation AVVG 4x50+1x25mm2 | | | m | | 50,000 | | |  | |  |
| 26 | | 08-02-400-1 | | Conductor on perforated profiles, section up to 6 mm2 | | | 100 m | | 6,000 | | |  | |  |
| 27 | | Market price | | Solar cables H1Z2Z2-K 6mm2 1500VDC | | | m | | 600,000 | | |  | |  |
| 28 | | 08-02-412-2 | | Insertion of conductors into pictured metal pipes and hoses: the first single-wire or multi-wire conductor in common braiding, short section up to 6 mm2 | | | 100 m | | 1,500 | | |  | |  |
| 29 | | Market price | | AC cable PV3 6mm2 1000VAC yellow-green | | | m | | 150,000 | | |  | |  |
| 30 | | 08-02-412-3 | | nsertion of conductors into pictured metal pipes and hoses: the first single-wire or multi-wire conductor in common braiding, short section up to 16 mm2 | | | 100 m | | 0,600 | | |  | |  |
| 31 | | Market price | | AC cable PV3 16mm2 1000VAC yellow-green | | | m | | 60,000 | | |  | |  |
| 32 | | 08-01-082-1 | | Clamps included: clamp without protective case | | | 100 un | | 0,050 | | |  | |  |
| 33 | | 08-02-411-1 | | Metal hose, outer diameter up to 48 mm | | | 100 m | | 3,400 | | |  | |  |
| 34 | | Market price | | Insulated metal tube D=13mm | | | m | | 250,000 | | |  | |  |
| 35 | | Market price | | Insulated metal tube D=20mm | | | m | | 50,000 | | |  | |  |
| 36 | | Market price | | Insulated metal tube D=37mm | | | m | | 40,000 | | |  | |  |
| 37 | | Market price | | PG21 gland, IP67 degree of protection | | | un | | 12,000 | | |  | |  |
| 38 | | Market price | | Gland PG36, Degree of protection IP67 | | | un | | 8,000 | | |  | |  |
| 39 | | Market price | | End tube, double pins 6-14mm2 NGI2 6-14 | | | un | | 2,000 | | |  | |  |
| 40 | | Market price | | Metal channel on walls and ceilings, length 3 m | | | 100 m | | 0,360 | | |  | |  |
| 41 | | Market price | | Perforated galvanized metal gutter 100x50x0.8mm | | | m | | 30,000 | | |  | |  |
| 42 | | Market price | | Cap for galvanized perforated metal gutter 100mm | | | m | | 30,000 | | |  | |  |
| 43 | | Market price | | Perforated galvanized metal gutter 150x50mm | | | m | | 6,000 | | |  | |  |
| 44 | | Market price | | Cap for galvanized perforated metal gutter 150mm | | | m | | 6,000 | | |  | |  |
|  | |  | | **Total Cable networks and accessories**  **Including salary** | | | $  $ |  | | |  | | |  |
|  | |  | | **2.4. Grounding** | | |  | |  | | |  | |  |
| 45 | | 08-02-471-4 | | Ground socket, vertical, made of round steel, diameter 16 mm (Galvanized round electrode for grounding, l=3m, d=20mm) | | | 10 un | | 0,600 | | |  | |  |
| 46 | | 08-02-472-2 | | Earthing conductors: earthing socket, horizontal, made of split steel, section 160 mm2, (Metal strip for earthing 40x4mm) | | | 100 m | | 0,360 | | |  | |  |
|  | |  | | **Total Grounding**  **Including salary** | | |  |  | | |  | | |  |
|  | |  | |  | | |  |  | | |  | | |  |
|  | |  | | *Total,* | | | $ | | |  |  | | |  |
|  | |  | | *Social insurance 24 %* | | | $ | | |  |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Shipping costs %* | | | $ | | |  |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Directing expenses, % of salary* | | | $ | | |  |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Quote benefit %* | | |  | | |  |  | | |  |
|  | |  | | **Total Installation works**  **Including salary** | | | $  $ |  | | |  | | |  |
|  | |  | | **3.**  **The value of the machine** | | |  | |  | | |  | |  |
| 47 | | Market price | | Monocrystalline photovoltaic panel JA Solar JAM72S30-550-MR | | | un | | 96,000 | | |  | |  |
| 48 | | Market price | | On-grid three-phase inverter R3-50K-G5 | | | un | | 1,000 | | |  | |  |
| 49 | | Market price | | Extruded plastic panel, Degree of protection IP65 ABS 400x600 | | | un | | 1,000 | | |  | |  |
| 50 | | Market price | | Arrester OPC-1B 3P | | | un | | 1,000 | | |  | |  |
| 51 | | Market price | | Extruded plastic panel 36 modules, Degree of protection IP65 ABS36MOD | | | un | | 2,000 | | |  | |  |
| 52 | | Market price | | Three-phase automatic switch 100A, VA88-33/M6-160H | | | un | | 1,000 | | |  | |  |
| 53 | | Market price | | DC IS-PV-DC-4-32 1000VDC modular rotary load separator | | | un | | 3,000 | | |  | |  |
| 54 | | Market price | | DC SDF30 10x38 30A fuseable separator | | | un | | 12,000 | | |  | |  |
| 55 | | Market price | | Fuse fuse GPV -10x38, 16A | | | un | | 12,000 | | |  | |  |
| 56 | | Market price | | DC arrester TRS3-C40-2P 1000VDC | | | un | | 6,000 | | |  | |  |
| 57 | | Market price | | Three-phase smart meter | | | un | | 1,000 | | |  | |  |
| 58 | | Market price | | Connection clamp UKK250A | | | un | | 5,000 | | |  | |  |
|  | |  | |  | | |  |  | | |  | | |  |
|  | |  | | *Total* | | | $ | | |  |  | | |  |
|  | |  | | *Semi-finished products and storage costs %* | | | $ | | |  |  | | |  |
|  | |  | | **Total Value of the machine**  **Including salary** | | | $  $ |  | | |  | | |  |
|  |  | |  | | |  | |  | | |  | |  | |
|  |  | |  | | |  | |  | | |  | |  | |
|  | |  | | **Total estimate $**  **Including salary $** |  | | |  | | |  | | **——————** | |

|  |  |
| --- | --- |
|  | Elaborator of quotations |
| (funcţia, semnătura, numele, prenumele ) | |
| Bidder |  |
| (funcţia, semnătura, numele, prenumele) | |