**Pre-insulated pipes and completing (City - Mykolaiv)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Quantity in the context of diameters DN, mm | | | | | | | Units of measure |
| 45/110 | 57/125 | 89/160 | 108/200 | 133/225 | 273/400 | 530/710 |
| Pre-insulated pipe, polyurethane foam, straight, PE sheath, fitted an alarm | 5 | 54 | 683 | 210 | 202 | 1100 | 1057 | meters |
| Pre-insulated pipe, polyurethane foam, straight, protective metal sheath, fitted an alarm |  |  |  |  |  |  | 700 | meters |
| Fixed support pre-insulated, PE sheath, straight |  |  | 8 | 2 | 2 | 16 | 12 | pc |
| Fixed support pre-insulated, PE sheath, angular 90о |  |  | 2 |  |  |  |  | pc |
| Joint insulation kit (type ЕР-3) heat shrink sleeve |  |  | 81 |  |  | 138 | 104 | pc |
| Axial free compensator pre-insulated in PE sheath ∆l=125mm |  |  | 4 | 1 | 1 | 14 | 6 | pc |
| Pre-insulated twisted elbow, 90о |  |  | 2 |  |  |  | 8 | pc |
| Pre-insulated twisted elbow, 45о |  |  | 8 |  |  |  |  | pc |

**Pipes (Units of measure – tons; City - Kharkiv)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Quantity in the context of diameters DN, mm | | | | | | | | | | | | | | | | | | | |
| 16х2 | 25х3 | 51х3 | 57х4 | 60х3 | 76х4 | 89х4 | 108х4 | 133х5 | 159х6 | 219х7 | 273х8 | 325х8 | 426х9 | 530х8 | 630х9 | 720х84 | 920х8 | 1020х14 | 1220х14 |
| Hot-deformed seamless steel pipe |  |  |  | 2 |  | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |
| Cold-deformed seamless steel pipe | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Straight seam electric welded steel pipe |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 3 |  |  |  |  |  |
| Straight seam welded steel pipe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 3 | 3 | 3 | 3 |
| Seamless hot-rolled pipe (steel grades  1.1151) |  | 3 | 3 |  | 3 | 3 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |

**Pipes (Units of measure – meters; City - Zaporizhzhia)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Quantity in the context of diameters DN, mm | | | |
| 57х3,5 | 76х4 | 108х4 | 159х5 |
| Electric welded steel pipe | 500 | 300 | 800 | 500 |

**Isolation valve**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Quantity in the context of diameters DN, mm | | | | | | | | | | | | | | Units of measure | City |
| 50 | 80 | 100 | 150 | 200 | 250 | 1250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| Ball valve steel flanged full passage for water РN1,6 MPa | 50 | 50 | 50 | 30 | 20 |  |  |  |  |  |  |  |  |  | pc | Zaporizhzhia |
| Ball valve steel for welding standard passage all-welded with a reducer for water РN2,5 MPa |  |  |  | 50 | 50 |  | 10 | 25 | 10 | 10 | 10 | 10 | 10 | 10 | pc | Kharkiv |
| Ball valve steel for welding standard passage all-welded hand operated for water РN2,5 MPa |  |  | 50 |  |  |  |  |  |  |  |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel flanged with retractable spindle PN2,5 MPa without matching flanges | 50 | 50 | 50 | 50 | 50 | 50 |  | 25 |  |  |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel flanged with retractable spindle PN1,6 MPa without matching flanges | 50 | 50 | 50 | 50 | 50 | 50 |  |  |  |  |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel flanged with retractable spindle PN4,0 MPa L=419 mm with matching flanges |  |  |  |  | 50 |  |  |  |  |  |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel flanged with retractable spindle PN1,6 MPa with matching flanges with a reducer |  |  |  |  |  |  |  |  | 25 |  |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel flanged with retractable spindle PN2,5 MPa without matching flanges with an electric drive 380V |  |  |  |  |  |  |  | 25 | 25 | 10 |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel flanged with retractable spindle gas PN1,6 MPa L=310 mm without matching flanges with an electric drive 220V |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  | pc | Kharkiv |
| Wedge gate valve steel with an ending for welding with retractable spindle PN2,5 L=500mm MPa with an electric drive 380V |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  | pc | Kharkiv |

**Frequency converter**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Additional technical characteristics, Capacity kW | | 4,0 | 7,5 | 10,0 | 11,0 | 12,5 | 15,0 | 22,0 | 30,0 | 40,0 | 55,0 | 75,0 | 90,0 | 160,0 |
| Quantity, pc | Mykolaiv |  |  | 3 | 15 |  |  | 8 | 12 | 3 | 1 |  |  |  |
| Chuhuiv | 1 | 3 |  | 1 | 1 | 2 | 2 |  |  | 2 | 1 | 2 | 1 |

**Pumps**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Additional technical characteristics | | | The closest analogue | Quantity, pc | City |
| Flow, м3/h | Head, m | Max liquid temperature, °C |
| Circulation network pump equipped with a frequency converter | 10 | 25 | 100 | - | 4 | Mykolaiv |
| 10 | 15 | 100 | - | 2 | Mykolaiv |
| 10 | 20 | 100 | - | 4 | Mykolaiv |
| 150 | 40 | 150 | - | 6 | Mykolaiv |
| 15 | 25 | 100 | - | 12 | Mykolaiv |
| 200 | 40 | 150 | - | 2 | Mykolaiv |
| 20 | 25 | 100 | - | 6 | Mykolaiv |
| 20 | 30 | 100 | - | 4 | Mykolaiv |
| 30 | 30 | 150 | - | 2 | Mykolaiv |
| 30 | 35 | 100 | - | 4 | Mykolaiv |
| 30 | 40 | 150 | - | 2 | Mykolaiv |
| 35 | 35 | 100 | - | 2 | Mykolaiv |
| 35 | 40 | 100 | - | 4 | Mykolaiv |
| 45 | 35 | 100 | - | 6 | Mykolaiv |
| 5 | 15 | 100 | - | 2 | Mykolaiv |
| 60 | 30 | 100 | - | 2 | Mykolaiv |
| 60 | 40 | 100 | - | 2 | Mykolaiv |
| 70 | 40 | 150 | - | 2 | Mykolaiv |
| 80 | 35 | 100 | - | 2 | Mykolaiv |
| 8 | 15 | 100 | - | 2 | Mykolaiv |
| Circulation network pump, 6 kV | 1160 | 110 | ≥80 | - | 4 | Zaporizhzhia |
| 1120 | 100 | ≥80 | - | 4 | Zaporizhzhia |
| Monoblock centrifugal Pump | 100 | 30 | 100 | SAER IR65-160B | 1 | Chuhuiv |
| 80 | 30 | 100 | SAER IR50-160NA | 1 | Chuhuiv |
| Cantilever centrifugal pump | 220 | 60 | 100 | MAS DAF NM 80-200 | 2 | Chuhuiv |

**Modular boiler houses**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Additional technical characteristics | | | Quantity, pc | City |
| Capacity, kW | Flow, м3/h | Head, m |
| Modular gas boiler house, equipped with a network pump | 1500 | 100 | 35 | 3 | Mykolaiv |
| 2500 | 100 | 35 | 2 | Mykolaiv |
| Modular solid fuel boiler house, full equipped and with a diesel generator | 120 | - | - | 1 | Zaporizhzhia |
| 130 | - | - | 1 | Zaporizhzhia |
| 140 | - | - | 1 | Zaporizhzhia |
| 240 | - | - | 1 | Zaporizhzhia |
| 300 | - | - | 2 | Zaporizhzhia |

**Autonomous energy equipment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Additional technical characteristics, Capacity kW | The closest analogue | Quantity, pc | |
| Kharkiv | Mykolaiv |
| Gasoline generator 220/380 V | 3,6/6,5 | Honda ECMT 7000 K1 | 20 |  |
| Gasoline generator 220 V | 5 | AGT 7501 HSBE R26 | 10 |  |
| Gasoline generator 220/380 V | 7,5/8,0 | Matari MX 11003E | 10 |  |
| Gasoline generator 220/380 V | 10/10 | Matari MX 14003E, 10KW | 20 | 10 |
| Diesel generator 380 V | 30 | - | 5 |  |
| Diesel generator 380 V | 80 | - | 5 |  |
| Diesel generator 380 V | 100 | - | 10 |  |
| Diesel welding generator 220/380 V | 8/4 | MOSA TS 300 KSX EL | 15 |  |
| Gasoline welding generator 220/380 V | 6 | AGT HONDA GX 390(WAGT 220 DCHSB) | 15 |  |
| Gasoline motor pump dirty water Н=27 m, Q=72m3/h | - | Honda WT30XK3 DE | 15 | 10 |

**Repair equipment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Additional technical characteristics | The closest analogue | Quantity, pc | City |
| Headlamp | illumination range 800 m | - | 300 | Kharkiv |
| Portable rechargeable flashlight | - | - | 200 | Kharkiv |
| Angle grinder | disk diameter 125 mm | - | 27 | Kharkiv |
| Angle grinder | disk diameter 230 mm |  | 27 | Kharkiv |
| Tool set | 119 tools | KING TONY 9519MR50 | 30 | Kharkiv |
| Tool set | 455 tools | TOPEX 79R502 | 30 | Kharkiv |
| Line locator | - | Dynatel 2273-E5T3 | 9 | Kharkiv |
| Thermal imager | - | FLIR E86 | 9 | Kharkiv |
| Utility line locating system | - | MEGGER SEBA KMT CARLOS PLUS  VLOC3-PRO | 9 | Kharkiv |
| Walkie-talkie | - | - | 60 | Kharkiv |
| Leak noise correlator | - | C3 Pro  Touch Pro HWM LTD | 9 | Kharkiv |
| Hydraulic station for hot water pumping | - | SUPER ASRID B (DOA) | 10 | Kharkiv |
| Inverter welder | 7.0 kW  200 A  230 V | Ergus C202 CDI | 40 | Kharkiv |

**Office equipment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Additional technical characteristics | The closest analogue | Quantity, pc | City |
| Personal computers (system units) | Processor: Intel Core i5 level  4 cores at 3.3 - 3.7 GHz  RAM: 16 GB DDR3 | Fujitsu Esprimo P720 E90+ Tower | 13 | Chuhuiv |
| Web Camera | 1080p Full HD | Canyon C2N (CNE-HWC2N) | 2 | Chuhuiv |
| Multifunctional device | Laser printing, copying, scanning, fax | HP LaserJet Pro M428fdw (W1A30A)  Canon i-SENSYS MF3010 | 8 | Chuhuiv |

**Transport**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Additional technical characteristics | The closest analogue | Quantity, pc | City |
| Mobile cranes | 12 t, diesel | - | 1 | Chuhuiv |
| Van | 6 seats, diesel | Renault Trafic 1.9 dci | 1 | Chuhuiv |
| Comprehensive mobile electrical engineering laboratory | - | based on the Renault Master L3H2 | 1 | Kharkiv |