WATER SUPPLY AND SEWERAGE IMPROVEMENTS AND CONSTRUCTION OF WASTE WATER TREATMENT PLANT IN THE MUNICIPALITY OF DRNIŠ

CONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEM EuropeAid/128848/M/WKS/HR

Corrigendum No.1

WORKS TENDER DOSSIER

In the VOLUME 3 – TEHNICAL SPECIFICATIONS, part 1/3 launched 2/2/2010, pg 34-36, clause 3.2.2. and 3.2.3. are modified and replaced by the following text:

Instead of:

3.2.2. Domestic water meters

The Contractor shall supply to the relevant communal enterprise for installation 635 customer water meters DN 20.

- Type: Multi-jet velocity meters;
- Max. temperature 30°C;
- Installation type: horizontal;
- Fitted with non return valve;
- Complete with threaded connection set (consisting of 2 nipples, 2 mother disks, 2 gaskets) and inlet strainer;
- Dry dial with incorporated magnetic shielding and sealed totalizer;
- Measuring accuracy to ISO 4064-1 Class B;
- Compliant with EEC Directive 75/33 and Measurement Instrument Directive 2004/22/EG;
- Compliant with data following data or better:

		DN 20
Permanent flow rate = meter designation acc. ISO4064-1	m ³ /h	2.5
Overload flow rate	m³/h	5
Minimum flow rate	m³/h	0.05
Transistional flow rate	m³/h	0.20

Initial metrological checking bulletin included.

The water meters shall be equipped with communications unit for automatic metering system by radio walk-by method using hand held terminals and fulfill the following requirements:

• Meter pre-equipped for remote communication;

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- Error free pulse retransmission;
- IP68 transmitter protection, to work in flooded pits or basements;
- Operating temperature between -15 and +55°C;
- Wireless connection with meter;
- Long life battery powered;
- Retrofit installing, without necessity of breaking seals or dismounting meter;
- Backflow detection and measurement;
- Tampering alarm;
- Radio data transmission, 433MHz free ISM frequency band;

3.2.3. Automatic meter reading system

The Contractor shall supply and put in operation an automatic meter reading system.

- General requirements:
- System type: Radio Walk-by Reading System, with hand held terminals;
- Radio specifications: 433 MHz, FSK modulation, visibility area up to 300 m
- System configuration:
- Hand held terminals 2 pcs;
- Docking stations 2 pcs;
- Application software 1 set;
- Hand Held Terminal requirements:
- Portable, Rugged and Ergonomic type (commercial PDA not accepted);
- Intel Xscale 400MHz processor, 128MB RAM, 64MB ROM with Microsoft Windows CE.NET 4.2 operating system;
- Alphanumeric keyboard, including functional keys;
- Possibility to extend storage memory with MMC or SD card;
- Back-up battery for data protection, rechargeable battery, min. 8h autonomy;
- Accessories included: carrying protective case, hand strap, charger;
- RF interface with antenna, 433MHz ISM band;
- Operating temperature: -10 to +50°C;
- IP54 dust and water splash protection;
- Docking station requirements:
- Dedicated for docking of hand held terminal, to charge battery and to communicate with a computer system for data management;
- With additional bay for charging a separate battery;
- Power supply: 220Vac 50Hz;
- USB or Ethernet output;

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- Hand Held Terminal Software requirements;
- Croatian language;
- Automatic data collection on-site, by radio communication;
- Reading methods supported: manual, radio;
- Route management;
- Data search facilities;
- Management of useful data for readers (access instructions, route data, etc.);
- Displaying statistical information about readings;
- Communication facilities for data transmitting.

Read:

3.2.2 Domestic water meters

The contractor shall supply to the relevant communal enterprise for installation 635 domestic water meters DN20

- Type: Multi-jet velocity meters
- Max, temperature 30°C
- Installation type horizontal
- Fitted with non return valve
- Complete with threaded connection set (consisting of 2 nipples, 2 mother disks, 2 gaskets)
 and inlet strainer
- Wet type dial with magnetic pointer and sealed totalizer
- Measuring accuracy to ISO 4064-1 class C horizontal, class B-vertical
- Compliant with EEC Directive 75 or Measurement Instrument Directive 2004/22/EC
- Compliant with following data or better

		DN 20
Nominal flow rate - meter designation acc. ISO4064-1	m³/h	2.5
Overload flow rate	m³/h	5
Minimum flow rate	m³/h	0.025
Transistional flow rate	m³/h	0.0375

• Initial metrological checking bulletin included

Water meters shall be equipped with communications unit for automatic meter reading by radio walk-by method using hand terminal and fulfil following requirements:

• Meters pre-equipped for remote communication

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- Error free pulse retransmission
- IP68 transmitter protection, for work in floated pits or basements
- Operating temperature between -15°c and +55°c
- Compact shape radio device must be integrated on the water meter
- Wireless (direct) communication with meter
- Long life battery powered
- Retrofit installing, without necessity of breaking seals or dismounting meter
- Radio data transition according EN13757-4 868,95 MHz
- Standard communication protocol: PRIOS
- Radio module programming communication: IrDa

3.2.3 Automatic meter reading system

The contractor shall supply and put in operation an automatic meter reading system.

General requirements:

- System type: Radio walk-by Reading system with hand held terminals
- Radio specification: 868 MHz FSK modulation visibility area up to 300 m
- System configuration:
- Hand held terminals with radio reading software 2 pcs
- Bluetooth receiver 868 MHz 2pcs
- Application software for PC- 1 set

Hand held terminal requirements:

- Commercial PDA
- CPU clock frequency min. 550 MHz, 128 MB SDRAM, 256 MB FLASH ROM
- Possibility to extend storage memory with MMC or SD card
- Back up battery for data protection, rechargeable battery, min. 8 hour autonomy
- Accessories included: protective case, charger.
- Operating temperature: -10°C and +50°C
- USB and/or Ethernet output
- Bluetooth communication
- Software with possibility for manual reading input

Bluetooth receiver requirements:

- Standard communication protocol PRIOS 868 MHz
- RF interface with antenna 868 MHz
- Rechargeable battery, min 8 hour autonomy, charger...
- Operating temperature: -10°C and +50°C

Hand held terminal software requirements:

- English and Croatian language
- Automatic data collection on-site, by radio communication
- Reading methods supported: manual, radio
- Route management
- Data search facilities
- Management of useful data for readers (access instructions, route data, etc.)
- Displaying statistical information about readings
- Communication facilities for data transmitting

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Application software for PC requirements:

- English and Croatian language
- Possibility to direct transfer reading data to billing system
- Route management
- Data search facilities
- Direct communication with hand held terminal USB and/or Ethernet

In the VOLUME 4 – BILLS OF QUANTITIES, Table 4, Item 3.2 is changing and following text is:

Instead of:

Procurement, supply and assembly of Docking stations

Read:

Procurement, supply and assembly of Bluetooth receiver 868 MHz.