

WATER SUPPLY & SEWERAGE AUTHORITY

Bethlehem - Beit Jala - Beit Sahour

Bethlehem Beit Sahour Road

Tel. 274 2685 - Fax. 274 3606

P.O. Box 112



سلطة المياه و المجاري

بيت لحم - بيت جالا - بيت ساحور

طريق بيت لحم بيت ساحور

تلفون 274 2685 - فاكس 274 3606

ص.ب. 112

## سلطة المياه و المجاري

بيت لحم - بيت جالا - بيت ساحور



إستدراج " توريد عدادات مياه صالحة للشرب "

رقم الاستدراج "WSSA/W/2025/007"

تمويل: سلطة المياه و المجاري

12/03/2025



## إستلام وثائق الإستدراج

أنا الموقع أدناه \_\_\_\_\_ أقر بأنني قد استلمت كافة

الوثائق التالية والخاصة بإستدراج " توريد عدادات مياه صالحة للشرب "

رقم الاستدراج: "WSSA/W/2025/007"

أ. الدعوة

ب. الرجوع لقانون الشراء العام رقم(8) لعام 2014 ونظامه.

ت. شروط الاستدراج

ث. المواصفات

ج. جدول كميات الاستدراج

اسم الشركة والمخول بالتوقيع: .....

ختم وتوقيع الشركة أو المخول بالتوقيع: .....

عنوان الشركة: .....

رقم الهاتف: .....

البريد الإلكتروني: .....

التاريخ: .....



أ. الدعوة  
إستدراج توريد عدادات مياه صالحة للشرب  
رقم: WSSA/W/2025/007

حضرة السيد / السادة \_\_\_\_\_ المحترم / المحترمين

تحية وبعد،

ترغب سلطة المياه و المجاري بيت لحم بيت جالا بيت ساحور بطرح إستدراج توريد عدادات مياه صالحة للشرب، حيث يمكن الحصول على نسخة من وثائق الإستدراج وشروطه من قسم المشتريات في سلطة المياه و المجاري خلال ساعات الدوام الرسمي إعتباراً من يوم الخميس الموافق 2025/3/13

- 1- يتم تسليم الاستدراج في ظرف مختوم ومكتوب عليه اسم ورقم الإستدراج وذلك في الساعة الحادية عشر صباحاً من يوم السبت الموافق 2025/3/22، وسيتم فتح الاستدراج في الساعة الحادية عشر صباحاً وفي ذات اليوم.
- 2- سلطة المياه و المجاري غير ملزمة بقبول أقل الأسعار.

واقبلوا فائق الاحترام

مدير عام سلطة المياه و المجاري

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ب: الرجوع لقانون الشراء العام رقم (8) لعام 2014 ونظامه.

جميع المشاريع والعطاءات واستدراج العروض خاضعة

لقانون الشراء العام رقم (8) لعام 2014 ونظامه.

وإذا وجد أي تعارض مع أية نقطة يتم

الرجوع الى قانون الشراء العام ونظامه.





## ت. شروط الاستدراج

1. يجب على المتقدمين تعبئة أسعارهم بالشيكول في جدول الكميات في المكان المخصص في الجدول المرفق بمستندات الاستدراج وتوقيعه وختمه من الشركة الموردة مع مراعاة عدم استخدام الشطب أو التعديل وإن ورد ذلك فيجب التوقيع مقابلها.
2. يجب على الشركة الموردة توقيع وختم العرض المالي والعرض الفني ويحفظا في ظرفين منفصلين ومغلقين. وسيتم فتح العروض المالية فقط للعدادات التي ستجرح في التقييم الفني بنسبة 70%.
3. للجنة العطاءات الحق في قبول أو رفض أي سعر مقدم دون إبداء الأسباب واللجنة غير ملزمة بقبول أقل الأسعار.
4. يتم الدفع فقط بموجب فاتورة ضريبية رسمية مرفقة بشهادة (خصم المصدر) تكون سارية المفعول.
5. السلطة غير ملزمة بدفع أي مبلغ على الحساب.
6. على المورد تزويد قائمة بالعدادات المراد توريدها موقعة ومختومة من المورد ورافاق عينة من كل عداد مياه من أجل عملية الفحص في المختبر ومرفق به شهادة فحص المصنع (ID Test) الخاص بكل عداد وذلك من أجل الموافقة عليه قبل فتح العرض المالي.
7. مرفق بالعرض الفني شهادة خصم مصدر سارية المفعول.
8. مرفق بالعرض الفني نسخة عن شهادة ترخيص الشركة.
9. يجب ارفاق شهادة جودة والتي تستوفي متطلبات ادارة الجودة وفق المواصفات والمقاييس الفلسطينية.
10. على المتقدم لهذا الاستدراج دراسة جميع الوثائق المتعلقة ببند الاستدراج.
11. سوف يتم استبعاد كل عرض لا يرفق بالوثائق المذكورة والضرورية واللازمة لهذا الاستدراج.
12. يجب توريد العدادات خلال اسبوع من تاريخ الإحالة.
13. في حالة الرغبة بالاستفسار عن أي بند من بنود الاستدراج والمواصفات يمكن مراجعة قسم المشتريات خلال ساعات الدوام الرسمي.

ختم وتوقيع الشركة



ث- المواصفات الفنية:

1- Specifications of Ultrasonic Water Meter:

Type	Water Meter ¾"
	Highly accurate, lead-free brass ultrasonic smart water meter for residential, commercial and industrial installations.
FEATURES	<ol style="list-style-type: none"> <li>1. Extreme low-flow accuracy and long-term measurement stability</li> <li>2. Integrated leak detection</li> <li>3. Mountable in any installation position</li> <li>4. Low pressure drop.</li> <li>5. Insensitive to sand and other particles in water.</li> <li>6. AMI &amp; AMR embedded and standard wireless M-Bus protocol according to EN 13757.</li> <li>7. Not sensitive to magnetic fields.</li> <li>8. Lead-free copper alloy body</li> <li>9. IP68 rated (Certificate must be submitted with the offer).</li> <li>10. More than 40 days of hourly data storage</li> <li>11. Extended Encoder protocol that includes temperature, alarms and error messages, etc.</li> </ol>
Standards	<ol style="list-style-type: none"> <li>1. MID 2014/32/EU and 2014/53/EU Directive.</li> <li>2. International standards ISO 4064-1:2017, ISO 4064-2, ISO 4064-3</li> <li>3. All supplied water meter shall conform to the latest version of OMIL R49 – standard.</li> <li>4. ROHS 2 2011/65/EU</li> <li>5. <u>Compliance with potable drinking water (WARS, KTW, ACS) Certificate (approved product).</u></li> <li>6. Water meter of European origin or similar in quality</li> <li>7. Meets or exceeds C715 AWWA/ANSI Standards</li> <li>8. Complies with NSF/ANSI Standards 61, Annex F/G as well as FCC part 15 B</li> </ol>





**Characteristic Flows**

**Flow Rate, Q**

Q = Quotient of the actual volume of water passing through the water meter and the time taken for this volume to pass through the water meter.

**Starting Flow Rate, Q0+**

Q0+ = Starting flow rate; below this flow rate the register will not show any re- actions. (Increasing flow condition)

**Minimum Flow Rate, Q1**

Q1 = Lowest flowrate at which the water meter is required to operate within the maximum permissible error.

**Transitional Flow Rate, Q2**

Q2 = Flowrate which occurs between the permanent flowrate Q3, and the minimum flowrate Q1, that divides the flowrate range into two zones, the upper flowrate zone and the lower flowrate zone, each characterized by its own maximum permissible error.

**Permanent Flow Rate, Q3**

Q3 = Highest flowrate within the rated operating conditions, at which the water meter is required to operate in a satisfactory manner within the maximum permissible error. Flowrate is expressed in m<sup>3</sup>/h or l/h.

**Overload Flow Rate, Q4**

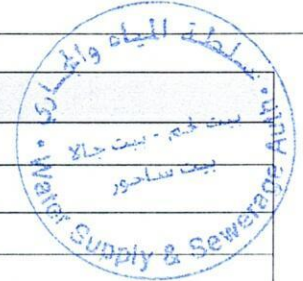
Q4 = Highest flowrate at which a water meter is required to operate, for a short period of time, within its maximum permissible error, whilst maintaining its metrological performance when it is subsequently operated within its rated operating conditions.

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**A. GENERAL TECHNICAL DATA**

➤ Maximum operating pressure	Not less than 16 bars
➤ Permanent Flow Rate, Q3	(Q3) = 2.50 m <sup>3</sup> /hr.
➤ Minimum Flow Rate, Q1	Q1 ≤ 6.25 l/h
➤ Standard production R	Q3 / Q1 ≥ (R400)
➤ The water meter must provide very high measuring accuracy, especially at low flow conditions. The volume measuring component must conform to the requirements OIML R49.	
➤ Water working temperature: up to 50°C	
➤ No measurement for air (working even if the water meter is not full of water)	
➤ The nominal pressure is 16 bars.	
➤ Pressure loss through the water meter shall not be greater than 0.40 bar.	
➤ Excellent performance in sudden starts.	
➤ Ability for calibration and Maintenance.	
➤ Power supply	Two 3.6 VDC lithium batteries
Battery lifetime	<ul style="list-style-type: none"> <li>✓ More than 15 years of lifetime</li> <li>✓ extractable battery (Replaceable battery)</li> <li>✓ The replacement of the battery shall be indicated on the meter and provide the possibility of indicating the next date of replacement after replacing the battery.</li> <li>✓ The properties and parameters of the meter shall not be affected by the interruption of the electrical supply when the battery is replaced.</li> <li>✓ The water meter should not be affected by the weakness of the battery.</li> <li>✓ The water meters shall be capable of operating accurately without a need for grounding system.</li> </ul>
Encoder interface	The meter register shall have a minimum of 5 digits and maximum 9 digits and the unit of measurement shall be in cubic meters. There shall be a minimum of 3 decimals places 1/1000 cubic meter for verification and testing, ASCII output for compatibility with most AMR/AMI systems.
Data storage	Alarms and consumption values (more than 30 days of hourly data storage)
Protection class	IP68



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**B. TECHNICAL DATA DISPLAY**

Display indication	LCD, 9-digit, additional symbols/display counter/unit
Values displayed	Display test - total volume - firmware version / checksum - current flow - errors / alarms (Additional values based on configuration)
Alarms	Hardware flow - leak detection - backflow - air in pipe - low battery - undersized meter - no consumption - high temperature - freezing risk
<p>➤ The water meter must provide very high measuring accuracy, especially at low flow conditions. The volume measuring component must conform to the requirements OIML R49.</p>	
<p>The water meter shall be capable of registering low flow conditions according to table:</p>	
✓ Start-up registration at Q0+:	≤ 1 L/hr.
✓ Max. Permissible error at Q1:	< ±5 %
✓ Max. Permissible error at Q2:	< ±2 %
✓ Max. Permissible error at Q3:	< ±2 %
✓ Max. Permissible error at Q4:	< ±2 %
✓ Falling registration at Q0:	≤ 3 L/hr.

**C. MATERIAL**

<p>➤ Brass or Bronze.</p>	
<p>➤ Water Meter Body (Housing):</p> <p>The water meter housing shall be made of brass (preferred), composite material is allowed given that the threaded end connection must be of stainless steel, brass or bronze alloy.</p>	
Measuring pipe	Lead-free copper alloy
Transducers	Composite
Reflectors	Stainless steel
<p>➤ Materials shall be selected to have adequate resistance against abrasion and corrosion, where necessary protective coating and lining shall be applied.</p>	

**D. Marking / Label**

✓ At least one arrow to indicate the direction of flow.
✓ Nominal thread size
✓ Permanent flow rate
✓ Working Pressure
✓ Model identification
✓ Year of manufacture
✓ Serial number
✓ Approval or registration number

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### E. Delivery Conditions

➤ All meters must be calibrated and sealed according to EEC regulation or equivalent.



➤ The water meters must be supplied including:

- ✓ One set of Klinger seal gaskets, the gaskets for joints shall be of rubber, with a minimum thickness of one and a half (1.5) mm.
- ✓ Rubber ring gaskets shall be of vulcanized natural or synthetic rubber material. Reclaimed rubber must not be used
- ✓ One set water meter connectors (brass couplings), with holes for sealing wire.
- ✓ Any specific tools, equipment, software or materials needed for the programming, calibration and installation for the meter shall be delivered within the package in sufficient quantities and included in the price of the meter.
- ✓ Two threaded tail pieces unions shall be used to couple the water meter inlet and outlet to water lines supply and delivery. Each Union shall consist of: Coupling nuts with holes for sealing wire, gasket and 2 tail pieces.
- ✓ The union size shall be suitable to fit the customer meter and house connection threaded size.
- ✓ The union shall be a rotating nut for connecting the meter sides. The tail pieces shall have male thread in accordance with BSP-21 thread for connecting the meter with the supply and delivery pipelines.
- ✓ Both unions shall conform with ISO 228-1 standards for threaded end meters.
- ✓ The working pressure shall be not less than 16 Bars.



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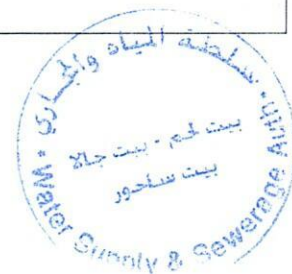


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### F. WARRANTY

- Lifetime professional liability warranty for the performance (covered by a commitment letter from the bidder/ supplier and manufacturer) as per the following:
  - ✓ At least 15 years for water meters (battery included): Defected items/items, is/are to be replaced at a cost considering a depreciation of 1/15 of the defected item value per year, running from the year of supply.
  - ✓ 10 years for the battery without considering any depreciation.
- Defect item/items, is/are to be replaced free of any charge including cost of return delivery, customs, and taxes (if applicable):
  - ✓ The battery lifetime should be guaranteed by the manufacturer from the date of delivery, if the battery life expires before the provisioned lifetime the battery shall be replaced at no cost to the purchaser.
  - ✓ The warranty shall cover the total cost Delivered at Place and the cost of proper replacement and commissioning.
  - ✓ The accuracy of the meter shall be guaranteed by the manufacturer from the date of delivery for the whole provisioned lifetime, if the meter's accuracy de-graded the meter shall be replaced at no cost to WSSA, separate warranty documents shall be submitted upon delivery.
  - ✓ All sensors (electrodes) shall be guaranteed from the supplier and manufacturers that it will not be affected by the water passes through it and will not affect the durability and stability of the meter; the water meters shall be guaranteed against the water quality (solid particles, dirt's and sedimentation) that no layer will be formed on the electrodes and it will not affect the accuracy or stability of the water meter during the period of meters warranty.







## 2- Specifications of Electromagnetic Water Meter:

Type	<p align="center"><b>Water Meter 3/4"</b></p> <p>Highly accurate, lead-free brass electromagnetic smart water meter for residential, commercial and industrial installations.</p>
<p align="center"><b>FEATURES</b></p>	<ol style="list-style-type: none"> <li>1. Extreme low-flow accuracy and long-term measurement stability</li> <li>2. Integrated leak detection</li> <li>3. Mountable in any installation position</li> <li>4. Low pressure drop.</li> <li>5. Insensitive to sand and other particles in water.</li> <li>6. AMI &amp; AMR embedded and standard wireless M-Bus protocol according to EN 13757.</li> <li>7. Not sensitive to magnetic fields.</li> <li>8. Lead-free copper alloy body</li> <li>9. IP68 rated (Certificate must be submitted with the offer).</li> <li>10. More than 40 days of hourly data storage</li> <li>11. Extended Encoder protocol that includes temperature, alarms and error messages, etc.</li> </ol>
<p align="center"><b>Standards</b></p>	<ol style="list-style-type: none"> <li>1. MID 2014/32/EU and 2014/53/EU Directive.</li> <li>2. International standards ISO 4064-1:2017, ISO 4064-2, ISO 4064-3</li> <li>3. All supplied water meter shall conform to the latest version of OMIL R49 – standard.</li> <li>4. ROHS 2 2011/65/EU</li> <li>5. <u>Compliance with potable drinking water (WARS, KTW, ACS) Certificate (approved product):</u> All materials used when building the water meters have applied Hygienic Attests (PZH) that allow the product to contact with drinking water</li> <li>6. Water meter of European origin or similar in quality</li> <li>7. Meets or exceeds C715 AWWA/ANSI Standards</li> <li>8. Complies with NSF/ANSI Standards 61, Annex F/G as well as FCC part 15 B</li> </ol>

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**A. GENERAL TECHNICAL DATA**

➤ Maximum operating pressure	Not less than 16 bars
➤ Permanent Flow Rate, Q3	(Q3) = 2.50 m3/hr.
➤ Minimum Flow Rate, Q1	$Q1 \leq 3.13$ l/h
➤ Standard production R	$Q3 / Q1 = (R800)$
➤ The water meter must provide very high measuring accuracy, especially at low flow conditions. The volume measuring component must conform to the requirements OIML R49.	
➤ Water working temperature: up to 50°C	
➤ No measurement for air (working even if the water meter is not full of water)	
➤ The nominal pressure is 16 bars.	
➤ Pressure loss through the water meter shall not be greater than 0.40 bar.	
➤ Excellent performance in sudden starts.	
➤ Ability for calibration and Maintenance.	
➤ Power supply	Two 3.6 VDC lithium batteries
Battery lifetime	<ul style="list-style-type: none"> <li>✓ More than 15 years of lifetime</li> <li>✓ extractable battery (Replaceable battery)</li> <li>✓ The replacement of the battery shall be indicated on the meter and provide the possibility of indicating the next date of replacement after replacing the battery.</li> <li>✓ The properties and parameters of the meter shall not be affected by the interruption of the electrical supply when the battery is replaced.</li> <li>✓ The water meter should not be affected by the weakness of the battery.</li> <li>✓ The water meters shall be capable of operating accurately without a need for grounding system.</li> </ul>
Encoder interface	The meter register shall have a minimum of 5 digits and maximum 9 digits and the unit of measurement shall be in cubic meters. There shall be a minimum of 3 decimals places 1/1000 cubic meter for verification and testing, ASCII output for compatibility with most AMR/AMI systems.
Data storage	Alarms and consumption values (more than 30 days of hourly data storage)
Protection class	IP68



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**B. TECHNICAL DATA DISPLAY**

Display indication	LCD, 9-digit, additional symbols/display counter/unit
Values displayed	Display test - total volume - firmware version / checksum - current flow - errors / alarms (Additional values based on configuration)
Alarms	Hardware flow - leak detection - backflow - air in pipe - low battery - undersized meter - no consumption - high temperature - freezing risk
➤ The water meter must provide very high measuring accuracy, especially at low flow conditions. The volume measuring component must conform to the requirements OIML R49.	
The water meter shall be capable of registering low flow conditions according to table:	
✓ Start-up registration at Q0+:	≤ 1 L/hr.
✓ Max. Permissible error at Q1:	< ±5 %
✓ Max. Permissible error at Q2:	< ±2 %
✓ Max. Permissible error at Q3:	< ±2 %
✓ Max. Permissible error at Q4:	< ±2 %
✓ Falling registration at Q0:	≤ 3 L/hr.

**C. MATERIAL**

- Brass or Bronze.
  - Water Meter Body (Housing):  
The water meter housing shall be made of brass (preferred), composite material is allowed given that the threaded end connection must be of stainless steel, brass or bronze alloy.
- |                |                        |
|----------------|------------------------|
| Measuring pipe | Lead-free copper alloy |
| Transducers    | Composite              |
| Reflectors     | Stainless steel        |
- Materials shall be selected to have adequate resistance against abrasion and corrosion, where necessary protective coating and lining shall be applied.

**D. Marking / Label**

- ✓ At least one arrow to indicate the direction of flow.
- ✓ Nominal thread size
- ✓ Permanent flow rate
- ✓ Working Pressure
- ✓ Model identification
- ✓ Year of manufacture
- ✓ Serial number
- ✓ Approval or registration number



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### E. Delivery Conditions

➤ All meters must be calibrated and sealed according to EEC regulation or equivalent.



➤ The water meters must be supplied including:

- ✓ One set of Klinger seal gaskets, the gaskets for joints shall be of rubber, with a minimum thickness of one and a half (1.5) mm.
- ✓ Rubber ring gaskets shall be of vulcanized natural or synthetic rubber material. Reclaimed rubber must not be used
- ✓ One set water meter connectors (brass couplings), with holes for sealing wire.
- ✓ Any specific tools, equipment, software or materials needed for the programming, calibration and installation for the meter shall be delivered within the package in sufficient quantities and included in the price of the meter.
- ✓ Two threaded tail pieces unions shall be used to couple the water meter inlet and outlet to water lines supply and delivery. Each Union shall consist of: Coupling nuts with holes for sealing wire, gasket and 2 tail pieces.
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### F. WARRANTY

- Lifetime professional liability warranty for the performance (covered by a commitment letter from the bidder/ supplier and manufacturer) as per the following:
  - ✓ At least 15 years for water meters (battery included): Defected items/items, is/are to be replaced at a cost considering a depreciation of 1/15 of the defected item value per year, running from the year of supply.
  - ✓ 10 years for the battery without considering any depreciation.
- Defect item/items, is/are to be replaced free of any charge including cost of return delivery, customs, and taxes (if applicable):
  - ✓ The battery lifetime should be guaranteed by the manufacturer from the date of delivery, if the battery life expires before the provisioned lifetime the battery shall be replaced at no cost to the purchaser.
  - ✓ The warranty shall cover the total cost Delivered at Place and the cost of proper replacement and commissioning.
  - ✓ The accuracy of the meter shall be guaranteed by the manufacturer from the date of delivery for the whole provisioned lifetime, if the meter's accuracy de-graded the meter shall be replaced at no cost to WSSA, separate warranty documents shall be submitted upon delivery.
  - ✓ All sensors (electrodes) shall be guaranteed from the supplier and manufacturers that it will not be affected by the water passes through it and will not affect the durability and stability of the meter; the water meters shall be guaran- teed against the water quality (solid particles, dirt's and sedimentation) that no layer will be formed on the electrodes and it will not affect the accuracy or stability of the water meter during the period of meters warranty.





جدول كميات إستدراج توريد عداداترقم: WSSA/W/2025/007

#	المواد المطلوبة	مدة التوريد	الكمية المطلوبة		السعر بالشيكل غير شامل الضريبة	
			الوحدة	الكمية	سعر الوحدة	السعر الإجمالي
1.	عدادات (Ultrasonic) قطر (3/4) ( حسب المواصفات الفنية المرفقة )		عدد	50		
2.	عدادات (Electromagnetic) قطر (3/4) إنش ( حسب المواصفات الفنية المرفقة )		عدد	50		
المجموع الكلي شامل للضريبة						
المجموع الكلي بالكلمات بالشيكل شامل ضريبة:						

Each supplier must attach his price offer to the catalog of the sample he will supply with all the required certificates, as well as mentioning the **delivery period** required to supply the required quantity.

ختم وتوقيع الشركة