



QUESTIONS AND ANSWERS

as of 17 June 2024

ITB24/02797: Provision of Smart Electricity Meters

Q1: Reactive energy measurement: do you accept conformity declaration from other EU country? As reactive energy measurement is not regulated by EU directives.

A1: Reactive energy measurement: A conformity declaration from any EU country is accepted.

Q2: What do you mean under energy saving mode? All smart meters are working in normal mode when power supply is ON. The so-called "Energy saving mode" as described in the requirements is not available for continuous operation. As when the power supply is OFF, the meter is in non-operation mode: RTC and opening sensors are active, but display is inactive, can be activated by pushbutton. But the LCD usage should be limited as it has significant influence on the battery lifetime.

A2: Energy saving mode: The energy saving mode involves turning off the LCD backlight after a timeout defined in the meter settings. This is necessary to preserve the internal battery for as long as possible.

Q3: Information security: Communication encryption (AES-GCM-128 security suite); I understand that Security suit 0 with HLS (High Level Security) is accepted, as in the table the suit level is not specified.

A3: Information security: Security suite 0 with HLS will be accepted.

Q4: LCD display: "LCD with min 8 lines" - should we understand 8 digits on the main data field, or you are requesting for multiple line eg graphical or dot matrix display?

A4: LCD display: To clarify that a graphical display with multiple lines is required under this tender.

Q5: SW licences: We can ensure the operation propose the HES for the pilot under the condition that Cloude based solution is accepted and VPN access is granted to the APN where the meters/modems are connected.

A5: SW licences: A cloud-based solutions, under exiting conditions, does not align with the current pilot concept and existing needs. Therefore, a stand-alone version on the system operators' hardware platforms is required, in line with the schedule of requirements.

Q6: In our solution there is no separate 3 phase CT connected meter, but the Data concentrator also serves as a 3 phase CT connected balancing meter. It has no LCD display and so it is not MID certified. Do you accept such solution?

A6: Three-phase CT: An integrated totalizing meter in the DCU will be accepted. The totalizing meter is not intended for commercial energy measurement, thus MID certification is required in line with the Schedule of Requirements. The integrated totalizing meter in the DCU without an LCD display will be accepted.

Q7: What do you mean Standard model in the table under "DLMS/COSEM SUPPORT" any specific data model has to be fulfilled? Do you accept any published data model specified by manufacturer independent entity?

A7: DLMS/COSEM SUPPORT/Data Model: The need for incorporating a specific data model is to ensure compatibility of devices under this tender with the existing systems in place and upcoming. The specific data model will be disclosed at the award/contracting stage to the winners of the bidding lots. Offers will be considered for award/contracting if the bidders adhere to this compatibility principle. Therefore, it is expected that meters be configured at production according to this model to be accepted for delivery. Any published data model specified by a manufacturer-independent entity will not be accepted. This is a precondition for contracting outlined in the Solicitation Document.

Q8: For RS485 meters, No GSM modem are required to these meters? We can propose an architecture where one meter holds a GSM modem, and all other meters are connected over RS485 and all of them can be read over 1 sim card. No external GSM modem is necessary.

A8: RS485 meters: This is to confirm that no GSM/UMTS/LTE modems are required under this tender. Considering Pilot requirements and scope, the communication modules are a separate procurement procedure.

Q9: For Lot 1, will you accept OSGP (Open Smart Grid Protocol) PLC and OSGP data model instead of the requirement for OFDM PLC and PRIME compliance?

A9: For Lot 1: In line with the Schedule of Requirements, only PLC PRIME devices are accepted. OSGP (Open Smart Grid Protocol) PLC and OSGP data model will not be accepted instead of the requirement for OFDM PLC and PRIME compliance.

Q10: For Lot 2, will you accept OSGP PLC and OSGP data model for this lot? Or does it need to offer a hybrid PLC+RF solution?

A10: For Lot 2: In line with the Schedule of Requirements, HYBRID PLC PRIME devices (PLC+RF) are accepted under this lot, provided that the HYBRID technology is certified.

Q11: For lot 3, will you accept PLC or does the meter need to include RS485?

A11: For Lot 3: According to the planned scenario and Schedule of Requirements, the meters will communicate via the RS485 serial interface, thus PLC is not necessary under this Lot.

Q12: Shock voltage: 6kV, 1.2/50 μ s as requested, could you please clarify which standard is requested?

A12: IEC 61000-4-5

Q13: Electrostatic discharge: could you clarify which type of electrostatic discharge you are referring to here? Contact or Air?

A13: Air, as per EN 61000-4-2 (15 kV) as specified in Technical Requirements Annexes.

Q14: Operating modes: Could you describe what is power saving mode?

A14: The energy saving mode involves turning off the LCD backlight after a timeout defined in the meter settings. This is necessary to preserve the internal battery for as long as possible.

Q15: Communication Technology: will you accept G3 PLC Hybrid instead of PRIME Hybrid?

A15: Only PLC PRIME equipment will be accepted. Please note, that to ensure compatibility, a specific data model, mentioned in the ToR, must be followed. This data model will be disclosed at the award/contracting stage to the winners by UNDP. Offers will be considered only if the bidders adhere to this compatibility principle. Meters must be configured according to this model at production to be accepted for delivery. Any manufacturer-independent data model will not be accepted. This is a precondition outlined in the Solicitation Document.

Q16: Surge immunity: Could you clarify which standard is requested?

A16: IEC 61000-4-5 as specified in Technical Requirements Annexes.

Q17: Insulation strength: will you accept 2.5kV?

A17: kV range as per Class 2 protection will be accepted as specified in Technical Requirements Annexes.

Q18: Backup power supply: Will you accept a battery with a capacity for 3 years instead of 10 years?

A18: No, considering national requirements. Kindly refer to the minimum requirements in the Specifications.

Q19: Impulse voltage: Between power circuits and neutral and their combinations: Is this requirement about Surge or Shockwave?

A19: Surge.

Q20: Impulse voltage: Between all phases, neutral, and earth: Is this requirement about Surge or Shockwave?

A20: Surge.

Q21: MTBF: Do you confirm that the MTBF needed is 24,000 hours?

A21: Yes, confirming.

Q22: Will you accept: ± 0.09 s/24 h, considering that the concentrator system time and the RTC are synchronized with an NTP server?

A22: Yes, considering that it complies with the minimum technical specifications requirement on the needed range.

Q23: Will you accept ± 8 kV?

A23: Yes, in line with EN 61000-4-2 standard requirements.

Q24: Will you accept ± 4 kV for AC?

A24: Yes, considering that it is in line with the required standard, i.e., IEC 61000-4-5

Q25: Will you accept listed interfaces: USB 2.0 Full Speed standard compliant, can be used for local communication; RS-485 interface; TIA/EIA-485 standard compliant used for communication with external devices?

A25: Yes, this is to confirm that it is acceptable, considering that it complies with the minimum technical specifications requirement as listed in the Technical Specification.

Q26: Backup power supply: Will you accept not to support such a solution?

A26: No, this is a mandatory requirement.

Q27: Information security: Will you accept 802.1x & EAP-TLS?

A27: The standard mentioned in your inquiry refers to an authentication standard while technical requirements under this bid refer to a data encryption standard. These are two different standards and subjects. If you refer to additional security measures, it will be accepted.

Q28: Indication LEDs: Will you accept: Ethernet (WAN/LAN), Cellular WAN, Power supply LEDs?

A28: Yes, this is to confirm that it will be accepted considering that it is in line with the Required Minimum technical specifications.

Q29: Software upgrade: Will you accept that DC automatic update will be from the stated URL, frequent check for updates but not automatically, the period can be configured?

A29: Yes, this is to confirm that it will be accepted considering that it is in line with the Required Minimum technical specifications.