

ELECTRICITY DISTRIBUTION
COMPANY (EDCO)
AMMAN - JORDAN
REF. : 1/2024/5257
DATE : 01/04/2024



شركة توزيع الكهرباء المساهمة العامة
(عمان - الأردن)
الرقم :
التاريخ :

TELEFAX MESSAGE

TO	COMPANY :	
	ATTENTION :	
	FAX NO. :	
	COUNTRY :	

SUBJECT : Tender No.(22/2024):Supplying of smart meters with HES - Clarifications

Dear Sir,

Related to the tender No. (22/2024) for supplying of smart meters with HES, kindly be informed the attached clarifications and EDCO reply for tenderers questions.

Best Regards,

Director General
Eng Reem Hamdan

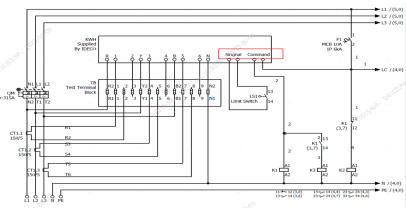
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From	

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No.	Original clause	Questions	EDCO Reply
1	A certified document proving tenderer offered meters had operated successfully with one of Head End Servers with the same mentioned versions above.	Which kind of document does this mean? Integration certificate issued by Hexing or Holley?	Yes
2	Telecommunication Regulatory Commission approvals, and approvals related to Jordan custom department are a part of Tenderer responsibilities where the delivery is considered EDCO stores. EDCO role play here is exclusive in supporting documents if needed to concern governmental departments.	This approval shall be required at tender stage or at delivery stage?	In delivery Stage
3	The expected operational time of the offered meter shall be not less than (20 years) and the accuracy of the meter shall remain within the specified class which must be confirmed by an official organization from KEMA, SGS or NMI. A certificate or confirmation to this effect must be provided.	Does this mean the "accelerated life test report" or other kind of certificate?	Certificate of Predicted Lifetime
4	License of exiting EDCO's HESs (Hexing, Holley, or the new HES to be supplied by this tender) shall be included.	Do you have any idea how Holley and Hexing will quote for the license of new meter to be connected to their HES system	This is tenderer responsibility
5	The programmable tariff software application shall provide different programmable tariff structures (up to 4 daily switching times) with day light time saving according to the Jordan Standard. It must be possible to change date, time as well the tariff program; this should also include the ability to make changes remotely via the communications network using EDCO HES systems including Hexing HES, Holley MDC, and the new HES to be supplied in this tender, MDM, SAP billing system, HHU & laptop (The HHU 4 application shall be in the form of Windows based application with industry standard features).	Our understanding for this is that we must integrate with all three HES system including Hexing, Holley and new HES to support the remote change of time and tariff, right?	No, One HES is enough
6	A sample of each meter type should be submitted with the offer. Any offer received without technical details and samples; EDCO has the right to reject that offer during evaluation without any prior notice.	What is the tender submission date?	until tender closing date 01/05/2024
7	The meter should not be influenced by external strong DC magnetic fields	What is the actual degree or standard for the magnetic fields? 200mt, 500mt or others?	Refer to IEC62053-11
8	For the required communication modules, The modules shall be compatible with the following meter models & manufacturing year: DDSY283SR and DTSD5454	Does this mean that our communication module need to integrate with DDSY283SR and DTSD5454?	Yes
9	The Main Components Manufacturer Reference List	All the meter main components shall be selected from this table, right?	yes, except the Microcontroller If it is ARM technology
10	N/A	Which kind of cooperation mode shall we work together for this tender? JV, Sole bidder? Which party shall be the lead bidder for this tender if JV?	The mode should be JV with local Jordanian company, which lead the tender.
11	15. To ensure the fixing screws of modems cannot come out from their place, some design considerations must be taken.	Please describe in detail the position of the module screws Screws at the antenna interface?	Module screws are for fixing the module cover and its position is due to the design from the manufacturer, the requirement is only the screw of the cover should not come out from its place
12	VII. Current without voltage for the CT and CTVT meters (at least one phase should have voltage).	Can you provide the detail description of this requirement?	In case the CT and CTVT meters lost voltage due tampering or any other reasons (V=0) in one phase or two phases, but there is current in these phases (I>0), the meter should register this event (Current without voltage in Phase X)

13	18) Single phase should calculate energy in case Neutral connection removed in the main phase registers depending in the battery voltage, meter will suppose the voltage 230 and power factor 1, it's preferred to have a sperate register for this energy in addition to energize in the main phase registers.	Can you provide the detail description of this requirement?	1. Please adhere with EDCO specifications.						
		Why it need depending in the battery voltage?	2. Because the meter is without line voltage (Powered off) and there is current, we choose the battery voltage to run the meter process						
		The sperate register is C.53.1 register?	3.No. You can select any other tamper registers.						
14	e) The relay should not accept connect in case the voltage exists in the outage side.	For three phase DC meter, Is it acceptable that only the C phase supports this function?	No						
15	Communication ports:Two ways IrDA communication ports or Local – Flag (According to IEC62056-21/IEC61107 Mode C).	1. What is the IrDA port? Is it enough for the meter to support the optical port andRS485 port?	1. IrDA port means Optical Port.						
		2. In general, mode E is the more generic protocol, we use IEC62056-21 mode E or HDLC instead of mode C, is it feasible?	2. Yes, mode E is accepted.						
16	Rated Current:(5) A.	1. It mean which Ib is 1A and maximum current is 5A, right?	Ib is 1A and Imax is 5A						
		2.if Ib is 5A,pls tell us the value of maximum current							
17	HHU provided for settings at site?	How many HHU we need to provide in this project? Because we can't find the quantity. Is there any specification of HHU? Or only for our supplied meter's reading Do you need our HHU integration with others manufacture's meter and Applications? It will increase the integration cost if yes.	Please committ with schedule (A) of required materials.						
18	5. Offered meters will have a communication modules support (2G/3G/4G), all Documents and datasheet clarify the model, type, working bands, certification, compliance information and manufactures of the modules should be provided,	In the installation environment of meter, is the 2G/3G/4G communication module more suitable for the antenna inside the meter or the external suction cup antenna?	Inside the meter, some rare cases we need external Antenna						
19	3) The Tenderer shall provide a serial port RS485 using open Standard Protocols (according should IEC 62056-21) that allows two-way communication with the meter using an external modem. (According should as per IEC 62056/DLMS HDLC mode).	Does the external modem refer to the pluggable module of meter? Please provide more information related to the external modem.	In point No. (3) Just the serial port RS485 required.						
20	<div>27- For the required communication modules: 1- The communication modules shall be (2G/3G/4G) technology. 2- The modules shall be compatible with the following meter models & manufacturing year: <table><tr><td>Single phase meters</td><td>DDSY283SR</td><td>Manufacturing year 2017</td></tr><tr><td>Three phase meters</td><td>DTSD5454</td><td>Manufacturing year 2017</td></tr></table></div>	Single phase meters	DDSY283SR	Manufacturing year 2017	Three phase meters	DTSD5454	Manufacturing year 2017	Can you provide more information related to electricity meters and modules? For example, information such as interface definitions between modules and meters	Please adhere with EDCO specifications.
Single phase meters	DDSY283SR	Manufacturing year 2017							
Three phase meters	DTSD5454	Manufacturing year 2017							
21	C. General Specifications:	What does “the current re certification period” mean? Does it mean we need to provide a certification for the valid period of our meters (like ISO certification)?	It means to provide: 1. Reference List 2. Trade Register Certificate for the manufacturer.						
	11.The tenderer/manufacturer of the meters offered shall supply proof that he has been manufacturing meters similar to those specified in this document, for at least 5 years. The Tenderer shall submit with his offer a list of supply Authorities using similar meters to those offered as references and the current re-certification period required by law in the country of manufacturer.								

22	7.1. General Requirements	<p>Does our IT solution need to comply with this standard for high availability, clustering, and disaster recovery?</p> <p>Can we utilize some of the previous IT equipment? Do network devices also need to comply high availability?</p> <p>According to the bidding requirements, we need to purchase additional database servers. Will we also need to purchase Oracle databases in the bid?</p>	Please obligate with EDCO HES specification point No (3) for the existing EDCO HES.
	7.1.1. The HES shall provide web based or client-server access and shall not have a remote desktop console access		
	7.1.2. The HES shall provide server and application level monitoring tools		
	7.1.3. The HES's database setup shall support high-availability and clustering		
	7.1.4. All production and quality servers shall have high-availability system and quality and production landscape shall have disaster recovery (DR). DR setup shall have continuous data protection with zero downtime and data loss		
	7.1.5. The bidder shall provide load balancer mechanism and provide load balance appliances details		
	7.1.7. The bidder shall provide the list of pre-requisite third-party mandatory software licenses which has to be purchased in order to run the proposed HES		
23	/	Can we provide upgrade package and DB to solve deviation about firmware?	Question is not clear.
24	/	Can you delay the tender? 3 weeks or 2 weeks?	Done
25	<p>24) Offered CT meters shall fulfil the requirement of controlling a smart circuit breaker by CT meters latching relay and to implement control mechanisms to operate the latching relay associated with CT meters. This can involve software-based control systems that send commands to the latching relay to open or close the circuit with needed relay events in the meter.</p>	<p>1. Meter only need support disconnect and connect remotely? or only need support disconnect remotely?</p> <p>2. meter connect smart circuit breaker like the picture ,right?</p>	<p>1. Both connect & disconnect remotely.</p>
			<p>2. The only requirement is to have control output from the meter whatever the circuit design is.</p>