



KenGen

KENYA ELECTRICITY GENERATING COMPANY LIMITED

4th October 2016

TENDER NO. KGN-GDD-081-2016:

TENDER FOR SUPPLY, INSTALLATION AND COMMISSIONING OF ULTRASONIC WATER METERS FOR GEOTHERMAL RESOURCE DEVELOPMENT

CLARIFICATION NO.1

In accordance with the Tender for Supply, Installation and Commissioning of Ultrasonic Water Meters for Geothermal Resource Development, KenGen hereby issues **Clarification No.1**.

	CLARIFICATION	KenGen RESPONSE
1	Is this tender for clamp on meters or in line meters as it is not clear even though their flange rating is provided.	The tender is for in line meters. Clamp on meters shall be considered in line with equivalent specifications.
2	Why is the body material of DN100 and DN150 flowmeters Ductile Iron and not either Stainless Steel or Carbon Steel as normally used?	Stainless Steel or Carbon Steel shall be considered.
3	Please provide clarification on the below in page 32 of the tender document. Sound Path - Quad-path/can better paths be considered/proposed Pipe Joint - Flange (Default: DIN) Body material - Ductile Iron- Clarification required on choice of material	These are minimum specifications. Quad-path or better paths shall be considered for the meters. The flange type for the meters is the same
4	Why is KenGen not considering a site visit since the bidder will be required to provide the cost of installing and commissioning the flowmeters?	The flowmeters have standard flange specifications. These meters will hence replace existing meters. Suppliers can visit our site if more information on actual location and set up is required.
5	What is the actual power supply as 3.6V lithium batteries do not power such sizes of flow meters.	Some meters will be installed at locations with no direct power supply. In such cases we require battery powered meters. Supplier should state the power supply with this in mind. Half of the

		meters being procured will be stored for use as replacement meters in times of calibration or in the event of damage
6	Power Back up is in EEPROM so units will never lose memory not even after 8 years based on our experience.	Suppliers to state power back up for our consideration in line with required specifications.
7	How can M-Bus or RS485 power the unit as backup.	This is to enable meters deliver the data they have collected to a common master, such as a hand-held computer. Supplier to state alternative
8	Which type of flowmeters are requested : fixed or portable one	The flow meters are fixed. We shall also consider clamp on meters
9	Which kind of probes : insertion ones or clamp-on ones	Meters requested for are Ultrasonic meters. Clamp on meters shall also be considered in line with technical specifications
10	Concerning Technical specifications, pos. 9 : what kind of harsh environment could be encountered	Presence of hydrogen sulphide in some locations but in minimal quantities
11	Could you please give us more information regarding the metrology and mechanical datas requests	Please refer to minimum specifications on the technical requirements of the tender document
12	Does Kengen have a preferred method of reading data?	Data collection shall be manual
13	We can supply meters with remote reading via GSM/GPRS. With this configuration each meter would have a GSM/GPRS module that can send data once a day to a cloud-hosted server. Do we include this in our offer?	Please refer to the technical tender specifications
14	If the answer to the above is YES, do we also include the cost of data hosting in our offer?	Please refer to the technical tender specifications
15	Do we include cost of installation for each meter? If the response to above is YES, do we: a. Include the cost of connecting flanges for each meter b. What is the scope of the installation work, i.e, will it include pipe cutting and welding or just replacement of existing meters? c. Are there any civil works involved like chamber construction? If so are we supposed to include the cost of this as well.	All civil works shall be undertaken by KenGen. Suppliers can include installation cost of each meter or give a lump sum figure for the installation

ACKNOWLEDGEMENT OF CLARIFICATION NO.1

We, the undersigned hereby certify that the clarification is an integral part of the document and the

alterations set out in the Addendum have been incorporated in the tender proposal.

Signed.....

Tenderer.....