



**TENDER NO. KGN-HYD-021-2017**

**DATE: 25/08/2017**

**KENYA ELECTRICITY GENERATING COMPANY**

**TENDER FOR ROBOTIC UNDERWATER TAILRACE TUNNEL INSPECTION IN KAMBURU, GITARU AND KIAMBERE POWER STATIONS**

**CLARIFICATION No .2**

Tender for Robotic Underwater Tailrace Tunnel Inspection in Kamburu, Gitaru and Kiambere Power Stations, KenGen hereby issues Clarification No.2

**RESPONSE TO REQUEST FOR CLARIFICATION**

	<b>CLARIFICATION</b>	<b>KenGen RESPONSE</b>
1	Gitaru: There appear to be three access points into the tailrace tunnel—1) Surge Tunnel—near powerhouse; 2) Adit—near center point of tailrace tunnel; and 3) Discharge—near river, is this correct and can we use all three access points for our investigation?	This is correct. The three accesses can be used. Power supply at 415V, 50Hz is only available at the surge tunnel.
2	Gitaru: Do large animals (lions, antelope, elephants, etc.) roam the surface around the site? We need to know this in designing the setup of certain equipment.	Domestic animals such as cows, goats, sheep and the occasional hippo and antelopes roam around the site.
3	Kamburu: Does the tailrace tunnel drain at all when the turbines are off line? The drawings provided were not fully clear as to the water elevation in relation to the tunnel elevations when the turbines are off line.	The tailrace tunnel remain full even with the turbines offline.

4	Kamburu: There appear to be only two access points—1) Surge Tunnel—near powerhouse and 2) Discharge. Can we use both access points?	There are two access points as indicated and any can be used. However power supply at 415V, 50Hz is only available at the surge tunnel.
5	Kamburu: Do large animals roam the surface at the jobsite?	Domestic animals such as cows, goats, sheep and the occasional hippo and antelopes roam around the site.
6	Kiambere: Does the tailrace tunnel drain at all when the turbines are off line? The drawings provided were not fully clear as to the water elevation in relation to the tunnel elevations when the turbines are off line.	The tailrace tunnel remain full even with the turbines offline.
7	Kiambere: There appear to be only two access points—1) Surge Tunnel—near powerhouse and 2) Discharge. Can we use both access points?	There are four access points 1) Surge Tunnel—near powerhouse, 2)Draft Tube Gate slot, 3) Tail Race Tunnel outfall and 4) Tunnel Dewatering Pumps Shafts. Necessary drawings shall be provided. Any of these accesses can be used depending on size of equipment. Power supply at 415V, 50Hz is available at all the locations.
8	Kiambere: Can we have coordinates for the tunnel alignment or access points identified? This information would be helpful. Are there more detailed drawings of this tunnel and potential access points available?	These are not currently available at site. They will be availed during site work if found.
9	Do large animals roam the surface at the jobsite?	Domestic animals such as cows, goats, sheep and the occasional hippo and antelopes roam around the site.
10	Question 1: Section VII: Technical Requirements; 2. Description of services; 1. Scope... ‘The Contractor	The clause should be revised to read as follows :-

	<p>shall meet the cost of shipment in his country while the client will meet the cost of return shipment in Kenya' Does this mean that shipping costs to/from Nairobi are the Contractors responsibility and that in-country shipping costs (Nairobi to sites and return) shall be the responsibility of KenGen?</p> <p>Question 2: As per above, if the answer is yes, for the in-country shipping will KenGen supply the logistics services (trucks, forklifts, crane) or are these to be arranged/supplied to by the Contractor and invoiced to KenGen accordingly?</p>	<p>The Contractor shall provide all materials, tools and equipment necessary for the inspection Works. The Contractor shall be responsible for clearing and bonding [with Kenya Customs Department] of the inspection tools &amp; equipment. The Contractor shall meet the cost of shipment from his country to Kenya and back. The contractor shall also be responsible for in-country shipping costs (Nairobi to sites and return)</p>
11	<p>When is the intended date of project completion?</p>	<p>Outages required for this project shall be granted one plant at a time. However the outages will be provided one after the other with adequate breaks to allow transportation and setting up of equipment. The contractor will propose a program of work in their bid. Project commencement and Final program of work will be agreed between the parties.</p>
12	<p>Are there sources of line power available for our use at any of the access points?</p> <p>a. How many KW and at which voltages?</p>	<p>Power is available at points stated above at 450V, 50Hz and at least 90KW.</p>
13	<p>Are there existing cranes or gantries we can use at any of the locations to launch and retrieve the robotic vehicle?</p>	<p>Gantries and winches are available at Kiambere tailrace outfall and Kiambere draft tube gallery. None is available at the surge tunnels.</p>
14	<p>Will all work be completed during daylight hours or will there be nighttime operations?</p>	<p>KenGen proposes work to run continuously from 7.45am to 7.00pm in order to minimize duration of plant outages. These working hours will be extended or reduced depending on the stage of operation. Work will also continue every day of the outage until completion at each plant.</p>

15	How will the stages of payment be decided and agreed upon?	<p>The Advance Payment shall be a maximum of 10% of the Contract Price against a bank guarantee as specified in the tender. This shall be recovered fully from the first interim payment certificate</p> <p>The Terms of Payment shall be as set out below:-  Payment shall be made through an <b>unconfirmed Letter of Credit</b>. The Contractor shall be required to meet the Letter of Credit charges in the Contractor's country where applicable. Any extensions/ amendment charges that may result due to the Contractor's delays or mistakes shall be to the Contractor's account. Local suppliers shall be paid through Electronic Funds Transfer.</p> <p>Payment terms except for the advance shall be 60 days from the date of invoice.</p> <p>Should the Contractor require a confirmed letter of credit, then all confirmation charges both in and outside Kenya shall be to the Contractor's account.</p> <p>(a) 30% of Contract Price on submission of interim reports. This shall be less the advance payment where applicable.  (b) 70% of Contract Price upon submission of final report and documentation</p>
16	What are the tax rates (Kenyan and local) that must be included in the job pricing assuming the general contractor is a foreign entity?	The contractor shall familiarize himself with Kenyan taxation laws and comply with applicable sections.
17	Does KenGen own any equipment (telescopic handler, small cranes, generators, portable light towers, mobile construction office, etc...) that the contractors would be able to use during the project?	<p>KenGen owns a 35 ton mobile crane, 5 ton Forklift, 7 ton truck and 5 ton Hiab Truck. These are available for hire at the rates shown below. The hire rates are as listed below: -</p> <p>Mobile Crane – 102 USD/Hour  5 Ton Fork lift – 55.80 USD/Hour  7 Ton Truck – 88.60 USD/Hour</p>

		5 Ton Hiab Truck - 88.60 USD/Hour
18	Will the Client avail the year 2000 Kamburu Tailrace tunnel inspection/repair report to the bidders?	The report shall be availed to the winning bidder during the project implementation.
19	What are the project deliverables?	<b>Interim Reports.</b> Shortly after inspection detailing major feature found.  <b>Final Report.</b> In the format detailed in the tender document.
20	Availability of accommodation.	Accommodation is available at contractor cost at Kiambere, Kindaruma and Kamburu Camps and Kivaa, a town near Kamburu Power station. Rates exclusive of meals range from 25 to 35 US Dollars per room per day.
21	What form of evidence of completed projects will be acceptable to the client?	The evidence will be in form of completion certificate, payment invoices, signed contracts and references from clients as specified in the contract.
22	The bidders request for extension of tender closing date by two weeks.	The tender closing shall be <b>20<sup>th</sup> September 2017</b> . Bid submission time 10.00am and Bid opening time 10.30am of the same date.
23	Under General Information and Requirements, bullet 2 reads 'Identify voids, leaks and other anomalies affecting structural integrity of the tunnel'	Delete the word leaks for under bullet 2 to read "Identify voids and other anomalies affecting structural integrity of the tunnel"

**All other terms and conditions remain unchanged.**

**ACKNOWLEDGEMENT OF CLARIFICATION NO. 2**

We, the undersigned hereby certify that the addendum is an integral part of the document and the alterations set out in the Addendum have been incorporated in the tender proposal.

Signed.....

Tenderer.....

