



**KENYA ELECTRICITY GENERATING COMPANY PLC**

**KGN-COMM-001-2024**

**RFX 5000014479**

**REQUEST FOR PROPOSALS (RFP) FOR CONSULTANCY SERVICES  
TO UNDERTAKE DETAILED DESIGN FOR ADMINISTRATION  
BUILDING (ONE STOP SHOP) AND SUPPORTING  
INFRASTRUCTURE FOR THE KENGEN GREEN ENERGY PARK IN  
OLKARIA, NAIVASHA. (RE-TENDER)**

**(OPEN INTERNATIONAL)**

**28<sup>th</sup> February 2024**

**ADDENDUM No.2**

In accordance with the RFP for 'Consultancy Services to Undertake Detailed Design for Administration Building (One Stop Shop) and Supporting Infrastructure for the KenGen Green Energy Park in Olkaria, Naivasha., KenGen hereby issues Addendum No. 2 as follows;

**I. REVIEW OF TERMS OF REFERENCE (TOR)**

<b>INITIAL SCOPE OF CONSULTANCY SERVICES</b>	<b>AMMENDMENT</b>
<p><b>5.3.2. Proposed Energy Park Water &amp; Waste Water, Firefighting and Sewerage Infrastructure</b></p> <p>The consultant shall be required to make a detailed design sufficient for tendering to obtain the construction contractor. The type of construction contract is envisaged to be procure and construct works designed by the Employer using FIDIC Red book conditions of contract.</p> <ol style="list-style-type: none"><li>i. Map out the existing major water &amp; firefighting network and other services within and around the Energy Park area.</li><li>ii. Identify and map out the possible tapping points for the bulk raw water supply to the Energy Park.</li></ol>	

<ul style="list-style-type: none"> <li>iii. Identify and map out the possible tapping points for the firefighting water supply to the Energy Park.</li> <li>iv. Identify the suitable raw water storage area(s) based on the Energy Park feasibility and information from KenGen water management department.</li> <li>v. Determine the best industrial raw water routes by making comparative evaluation with respect to (a) Total distance, (b) Ease of construction, (c) Cost of construction, d) Cost of operations and maintenance, (e) Environmental and social risks (f) Regulatory requirements.</li> <li>vi. Determine the best firefighting raw water routes by making comparative evaluation with respect to (a) Total distance, (b) Ease of construction, (c) Cost of construction, d) Cost of operations and maintenance, (e) Environmental and social risks (f) Regulatory requirements.</li> <li>vii. Determine the best sewerage routes by making comparative evaluation with respect to (a) Total distance, (b) Ease of construction, (c) Cost of construction, d) Cost of operations and maintenance, (e) Environmental and social risks (f) Regulatory requirements.</li> <li>viii. Carry out topographical survey of the proposed raw water &amp; firefighting alignments.</li> <li>ix. Carry out geotechnical investigations and hydrological studies for the proposed water infrastructures as necessary.</li> <li>x. Prepare conceptual designs for the proposed water supply and distribution system options, and firefighting systems options and sewerage systems options for concurrence with the Employer. These includes environmental protection works required during and after construction. Take note that the environment in Olkaria is corrosive in nature due to the presence of Hydrogen Sulphide (H<sub>2</sub>S) and therefore the selection of the materials shall take this into account.</li> <li>xi. Prepare final designs for the approved water supply and distribution option to permanent water supply standards for concurrence with the Employer.</li> <li>xii. Prepare final designs for the approved firefighting system option to permanent firefighting system standards for concurrence with the Employer.</li> <li>xiii. Prepare final designs for the sewerage system option to permanent sewerage system standards for concurrence with the Employer.</li> <li>xiv. Prepare construction drawings and technical specifications for the raw water system.</li> <li>xv. Prepare construction drawings and technical specifications for the firefighting system.</li> <li>xvi. Prepare the bills of quantities (BOQs) for the raw water system for tendering purposes.</li> <li>xvii. Prepare the bills of quantities (BOQs) for the waste water</li> </ul>	<p><b>This scope has been removed</b></p>
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<ul style="list-style-type: none"> <li>system for tendering purposes.</li> <li>xviii. Prepare the bills of quantities (BOQs) for the firefighting system for tendering purposes.</li> <li>xix. Prepare the bills of quantities (BOQs) for the sewerage system for tendering purposes.</li> <li>xx. Advise the cost estimate based on the construction drawings, technical specifications and BOQs.</li> <li>xxi. Obtain requisite statutory permits, approval and/or licenses for construction of the water distribution systems, firefighting systems and sewerage systems where applicable.</li> <li>xxii. Identify and advise on relocation of any utilities along the proposed water distribution routes. This shall be minimized during design stage to avoid interruption of the existing services.</li> </ul>	
<p><b>5.3.3. Proposed Energy Park Electric Power Infrastructure</b>  The consultant shall be required to make a detailed design sufficient for tendering to obtain the construction contractor. The type of construction contract is envisaged to be engineer, procure and construct (EPC) works designed by the Employer using FIDIC Yellow book conditions of contract.</p> <ul style="list-style-type: none"> <li>i. Map out the existing electricity networks and other services within and around the Energy Park area.</li> <li>ii. Identify and map out the possible connection points to supply electricity to the Energy Park.</li> <li>iii. Identify the suitable site(s) for 220kv/33kv substation based on the Energy Park feasibility and information from the Employer.</li> <li>iv. Determine the best electricity power lines routes by making comparative evaluation with respect to (a) Total distance, (b) Ease of construction, (c) Cost of construction, d) Cost of operations and maintenance, (e) Environmental and social risks (f) Regulatory requirements.</li> <li>v. Carry out topographical survey of the proposed electricity routes alignment.</li> <li>vi. Carry out geotechnical investigations and hydrological studies for the proposed electricity infrastructures as necessary.</li> <li>vii. Prepare conceptual designs for the proposed electricity supply and distribution for concurrence with the Employer. These includes environmental protection works required during and after construction. Take note that the environment in Olkaria is corrosive in nature due to the presence of Hydrogen Sulphide (H<sub>2</sub>S) and therefore the selection of the materials shall take this into account.</li> <li>viii. Prepare final designs for the approved electricity supply and distribution option for concurrence with the Employer.</li> <li>ix. Prepare construction drawings and technical specifications.</li> <li>x. Prepare the bills of quantities (BOQs) for tendering purposes.</li> </ul>	<p><b>This scope has been removed</b></p>

xi.	Advise the cost estimate based on the construction drawings, technical specifications and BOQ	
xii.	Obtain requisite statutory permits, approval and/or licenses for construction of the electricity supply and distribution system where applicable.	
xiii.	Identify and advise on relocation of any utilities along the proposed electricity supply and distribution routes. This shall be minimized on the designs to avoid interruption of the existing services.	

## 2. SUPPLY OF LAPTOPS

The consultant shall be required to supply Three (3) Laptops within One (1) month from the commencement of the project. Specifications of the laptops are as follows;

SPECIFICATIONS FOR BRAND LAPTOPS			
NO.	ITEM	DESCRIPTION	MINIMUM REQUIREMENTS
1	Quantity	Units	3
2	Make & Source	Type	Notebook
		Colour	Black or Grey
		Brand Name	Specify
		Model	Specify
		Equipment category	Enterprise/Business
		Country of Origin	Specify
		Operating System	Genuine Windows 10 Professional pre-installed (64 bit)
3	Processor	Manufacture	Intel
		CPU	Intel Core i7 11th Generation
		Speed	2.80GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores
4	Memory	Installed RAM	16 GB
		Memory Technology	DDR3 SDRAM
		Memory slots	2 SODIMM slots supporting dual channel memory
5	Storage Devices	Capacity	1TB
		Controller Type	SSD
6	Display/ Graphics	Display Size (Min.)	14" HD 1080
		Resolution (Min)	1920 x 1080
		Laptop Display Type	Touchscreen display
		Camera	HD webcam, 2MP With camera security
7	Audio (On board)	Internal audio	High-definition Audio, Stereo Speakers.

<b>8</b>	<b>Graphics Card (HD)</b>	Intel® HD Graphics / AMD Radeon™ Graphics/ NVIDIA® GeForce® with a Memory of at least 6GB	Intel(R) UHD Graphics 620 or higher Radeon 530 Series or higher NVIDIA® GeForce® 940MX or higher
<b>9</b>	<b>Networking</b>	Data Link protocol	Ethernet, 802.11g, Fast Ethernet, Gigabit Ethernet 10/100/1000-Mbps
			RJ-45 Connector
			Wireless
			Bluetooth
<b>10</b>	<b>Input Method</b>	Keyboard, Touchpad	
<b>11</b>	<b>External Mouse</b>	Type	Genuine Brand USB Mouse from manufacturer
<b>12</b>	<b>Ports and Connectivity (In-build)</b>	USB Ports	2
		HDMI	1
		Sim Card slot	1
		Memory card Reader	SD Card
			SDHC Card SDXC Card
<b>13</b>	<b>Battery</b>	Technology	Lithium
		Average Run Time	5 Hours.
<b>14</b>	<b>Power</b>	Support Voltage	240 VAC,50-60 Hz, with 3 -pin British standard plug.
<b>15</b>	<b>Weight</b>	Maximum Weight	2.4 Kgs
<b>16</b>	<b>Warranty</b>	All Parts & Labor including consumables/ replacements eg batteries, adaptors etc	1 Year manufacturer's warranty and - 2year extended warranty from supplier
<b>17</b>	<b>Case/Bag</b>	Backpack	Genuine Brand bag from Manufacturer (Attach brochure)
<b>18</b>	<b>Cable lock</b>	Laptop cable security lock (Physical)	Compatible Genuine Brand security cable (Attach brochure)
<b>19</b>	<b>Energy Efficiency</b>	Compliance	ENERGY STAR
<b>20</b>	<b>Datasheets</b>	Must attach datasheets/brochures with clear pictures of the item and associated accessories	Attach brochures
<b>21</b>	<b>Authorization</b>	Genuine Manufacturer authorization	Attach Proof from manufacturer

Summary of the Specifications:

<b>Item Description</b>	<b>Capacity</b>
RAM	32GB
Storage	1 TB
Operating System	Windows 10 Pro
CPU type	Intel Core i7
CPU Speed	2.6 GHZ Hexa-core with turbo boost
SSD	6GB
Graphics	4K

**ACKNOWLEDGEMENT OF ADDENDUM NO. 2**

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

**Signed** .....

**Tenderer** .....

**Date** .....