

**KGN-HYD-013-2018: TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF INDUSTRIAL UNINTERRUPTIBLE POWER SUPPLY SYSTEMS FOR KAMBURU & MASINGA AND SCADA UPS BATTERY BANKS FOR GITARU, KINDARUMA, KIAMBERE & TURKWEL POWER STATIONS HYDRO POWER STATION -KENYA
CLARIFICATION NO. 1**

Item	TENDER ARTICLE	Question/additional information sought by tenderers.	Clarification
1	SCHEDULE 1 20 KVA INDUSTRIAL UPS SYSTEMS (3) FOR KAMBURU (2) AND MASINGA (1)	The redundancy aspect of the ups mentioned in the tender document, the concern is for one power station the aspect can be captured well, but for the power station where the ups required is one 20kVA and the existing is 15kVA the redundancy aspect here is tricky since the two UPS's have to be the same rating and brand, The question is redundancy expected here too?	Bidder shall supply three 20KVA industrial UPS systems each with redundant (2N), draw out type power converters as per technical specifications and schedule of requirements. The existing UPS will be decommissioned(removed) to install the new UPS. See addendumn1 and specification drawing
2	2. SCOPE OF WORK. Factory testing, and inspection witnessed by KenGen engineers at Manufacturers' premises.	The manufacturer factory visit by KenGen engineers, the concern is that in Kenya we do not have ups manufacturers but we have only distributors, • Does it mean the engineers will visit the authorized distributor premises or the factory premises which in most cases is overseas • If it's overseas, is it at the expense of the bidder • How many KenGen engineers in this case will be doing the visit in case it's overseas?	see addendum 1 additional clauses
3	TECHNICAL SPECIFICATIONS FOR BATTERIES	The batteries rating is not clear, in some cases its 2 Volts cell and in others is 12 Volts, the capacity is also not clear is 57.4 ah or is it 74 ah	Contractor shall supply and install batteries only in Kiambere, Gitaru, Kindaruma and Turkwel these batteries shall be rated at 74AH and 12V. All batteries shall be 12 V see addendum 1
4		Each UPS will have two strings of battery banks, the UPS is supposed to run for 4hrs, one of the battery bank is supposed to be a backup for the other but all connected to the UPS. The question is, is one string supposed to support load for 4hrs or are they supposed to carry 2hrs	The contractor shall supply and install three complete UPS'es Two in Kamburu and one in Masinga. Each UPS shall have two battery banks each bank shall be rated for two hours. Each battery bank shall have one or more parallel battery strings. See specification drawing and addendum 1

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	TECHNICAL SPECIFICATIONS FOR BATTERIES	The battery ratings on page 51 battery specifications as 2v. rather than 12v. 2.we were to be provided with more battery technical specifications (both voltage and Amperes) of the other power stations we did not visit. i.e. Turkwell.	Battery rating shall be 12 V See addendum 1
5	TECHNICAL SPECIFICATIONS FOR BATTERIES	During the site survey we were informed photos of batteries to be replaced at the plants we did not visit would be posted in your website.	See addendum 1
6	TECHNICAL SPECIFICATIONS FOR BATTERIES	The existing batteries for (kindaruma, Kiambere and Gitaru) on page 38 its 57.2Ah. In the technical specification you have requested us to quote with 74Ah. You noted that you will add pictures as the addendum to clarify the actual capacity in the respective stations.	Rating and photos of existing batteries have provided in addendum 1. All new batteries to be supplied to Turkwel, Kindaruma, Gitaru and Kiambere shall be rated 74AH, they shall all be of similar rating

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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 clarification has been incorporated in the tender proposal.

Signed and Date

Tenderer