



KENYATTA UNIVERSITY TEACHING, REFERRAL & RESEARCH HOSPITAL (KUTRRH)
PROCUREMENT DEPARTMENT
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TO ALL BIDDERS

**ADDENDUM NO.1: KUTRRH /TNDRAW/050/CETO-IMIC/2019-2020 -
CONSTRUCTION, EQUIPPING, TRAINING AND OPERATIONALIZATION OF
INTEGRATED MOLECULAR IMAGING CENTRE.**

Pursuant to Clause 3.16 on Clarification of Tender Documents, the Hospital wishes to make the following amendments/clarifications as indicated below;

- a) Kindly share the detailed drawings as per drawing schedule of page 132, 133.

Based on our initial review of the designs & BOQ, we would like to make the following observations:

- b) The position of the SPECT/CT scan room on the 1st floor right above the Cyclotron room is not advisable due to effects of radiation expected from Cyclotron and which will lead to poor SPECT/CT image quality.

Clarification: That is well noted, and necessary adjustments will be done guided by the regulatory and safety requirements and the proposal from the tenderers as captured in section 3.13 of the document.

- c) To enable efficient use of the 2 PET/CTs it is advisable that a total of at least 8 injection/uptake rooms be provided for.

Clarification: That is a function of the throughput of the patients and it will be implemented as per the design, any other changes will be addressed later.

- d) Our understanding of the Gas work BOQ does not seem to define/meet the requirements for specialized gases for Cyclotron such as Hydrogen, Helium etc., please clarify.

Clarification: Any specific changes will be addressed after award of the tender and they will be in line with the OEM that will have won the tender. There is a provisional sum that has been factored in the tender to address this.

- e) Based on our experience, and this being a pharmaceutical production plant, we note that clearance from PPB & RPB prior to final designs is critical as it could lead to very significant changes on the designs and by extension the civil works BOQ. Kindly advice.

Clarification: These are statutory requirements that that are being handled by the client. Refer to different specification requirements with regard to NCA, NRA and PPB among others on the part of the bidders.

- f) We have noticed that you are requiring a cyclotron that accelerates protons and also deuterons. The state of the art of PET radiopharmaceuticals production on a cyclotron does not consider deuterons anymore, because of its low efficiency. Moreover, in the technical specifications of the tender, the description of the nuclear reaction as well as the chemistry process are only considering the proton process, which let us understand that you are for the acceleration of protons and not deuterons. Our equipment which is at the vanguard of cyclotron based medical isotopes production worldwide, suppressed deuterons in our equipment a few years ago, and therefore we kindly ask you to reconsider this requirement as well as an extension for the submission of the file, so that we can properly offer the best value for Kenyatta University Hospital.

Clarification: KU Hospital is a teaching, research and referral hospital with the objective of setting up a state of the art Integrated Molecular Imaging Center. We envisage a world class research center that is capable of producing short lived isotopes in addition to the long-lived ones. The Deuterons will be required for bombardment of short-lived nuclides for future research capabilities. The Cyclotron will be required to have this capability, though the current specs have not captured deuterons because the option will be utilized later on in the operation of the system. So, to avoid future budgetary provisions for setting up an entire unit, it is of necessity that the system complies.

In view of this, we intend to acquire that latest technology and the most suited for the project and the future research programs. We recommend you offer a solution that will enable the Hospital to achieve the intended objective in the operation of the Integrated Molecular Imaging center.

- g) Award of the tender: will it be based on lowest quoted price?

Clarification: Award will be in line with Clause 6 of Instruction to tenderers and not on the lowest quoted price as stated in the evaluation criteria.

Our team continue to study the tender and we will be getting back in due course in case of need for further clarifications.

Please note that all other Terms and Conditions remain as they are in the tender document.



Dr. J. Wekesa Masasabi

Ag. CHIEF EXECUTIVE OFFICER