



SESAME

Synchrotron-light for Experimental Science and Applications in the Middle East

**PROCUREMENT NOTICE / ADVERTISEMENT
FORM P2: RESTRICTED INTERNATIONAL TENDER (RIT)**

Country of delivery of goods/works or services: JORDAN

Reference Number: *BEATS/T/20/03*

Description: *Designing, Manufacturing, Packing, Delivery and Installation of Lead Safety Hutches and Transfer Pipe Shielding for the BEATS Beamline at SESAME; Located at Allan/Salt/Jordan*

Deadline for Submission of Sealed Tenders: *4 January 2021 at 14:00 hr Jordan Local Time.*

Posting Date: 15 November 2020

International Centre for Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME) hereby invites qualified manufacturers of SESAME Members and Observers to submit sealed tenders for:

Designing, Manufacturing, Packing, Delivery and Installation of Lead Safety Hutches and Transfer Pipe Shielding for the BEATS Beamline at SESAME

This call for tenders concerns the construction of the new beamline BEATS being funded through the European project the project Beamline for Tomography at SESAME (BEATS).

It covers the i) design, ii) supply of drawings (manufacturing, assembly and as-built) and of iii) catalogue of components, iv) materials (including the lead) as well as v) manufacture, vi) inspection, vii) assembly, and viii) testing of all components.

A schematic layout of the BEATS beamline is shown in drawing 93.01.1000 (Version A and Version B). The drawing is attached as annex to this Technical Specification.

The beamline will have a 3T 3-pole-wiggler as insertion device located on a short straight section of the SESAME storage ring. The Front End will comprise photon absorbers and stoppers, a fixed mask, a window separating the machine and the beamline vacuum, attenuators and the primary slits. The maximum divergence of the beamline as defined by the fixed mask will be 1.8 mrad (h) by 0.4 mrad (v). The main optical component of BEATS will be a Double Multilayer Monochromator (DMM) placed outside of the SESAME storage ring tunnel in a dedicated optics hutch, allowing to select the photon energy between 8 and 50 keV. The total length of the beamline will be approximately 45 m, with a shielded transfer pipe connecting and bringing the X-ray beam from the optics hutch to a 9-m-long experimental hutch hosting sample and detector stages.

The beamline will be operated in monochromatic as well as pink beam modes. During operation of SESAME, the BEATS hutches and beam transfer pipe sections will provide radiation protection to users and all persons in the main hall. The main workplace will be in an unshielded control cabin located on the right-hand side of the experimental hutch.

General scope

The scope of this specification includes:

- Design, supply, and installation of an Optics Hutch (OH) in the SESAME experimental hall.
- Design, supply, and installation of an Experiment Hutch (EH) in the SESAME service area.

**P.O. Box 7, Allan 19252, Jordan, Tel. (+962-5) 3511348, 3511349, Fax (+962-5) 3511423
www.sesame.org.jo**



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- Design, supply, and installation of approximately 16 m of vacuum pipe shielding, from OH to EH (including supports, flange boxes, etc).

Unless otherwise explained, the works include the supply and installation of the material, products and equipment, as well as the commissioning and warranties described in the call for tender document.

This Project is being funded through the BEATs European project: "the H2020 RIA project BEATS, Grant No. 822535".

The purpose of this notice is to provide general information on the requirements for the procurement process and to inform interested suppliers how to obtain a copy of the Solicitation Documents.

The sealed tenders must be sent to SESAME on or before **4 January 2021**, in strict compliance with the instructions stipulated in the Solicitation Documents.

Due to the current COVID-19 Pandemic Situation, which affects many services, in particular international and national mail delivery services, the Bidder shall submit the offer as described in document "INVITATION TO BID", Section I, Articles 14th and 15th.

Interested companies which wish to participate in the RIT can download the Tender Documents, available free of charge, from the following link as from the posting date:

<https://www.sesame.org.jo/sesames/tenders>

SESAME reserves the right to amend the tender documents at any time during the tender process. Any amendments or clarifications will be communicated directly to all Bidders who have officially confirmed their intention to submit a sealed tender.

No remuneration will be made to companies for preparation and submission of their tenders.

Request for Clarification:

Interested companies may obtain further information and/or request a clarification latest 14 days before the deadline from the address below.

SESAME Contact Information:

Attn: Procurement and Tendering Manager

E-mail: procurement@sesame.org.jo

Please quote SESAME below reference and subject in all correspondence

Tender Ref: BEATS/T/20/03

Subject: Designing, Manufacturing, Packing, Delivery and Installation of Lead Safety Hatches and Transfer Pipe Shielding for the BEATS Beamline at SESAME; located at Allan/Salt/Jordan

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