Information Notice
Reference: WS2653979166

Introduction

- This Information Notice forms part of the European open Tender procedure for X-ray Defraction tool, published on 13-04-2026 underTNO reference number WS2653979166.

- This Information Notice provides a record of the questions submitted by the Tenderers up to and including [date] and the answers provided by TNO.

- The Information Notice serves to provide any additions/changes to the Tender Documents and to communicate announcements from TNO.

- If Tenderers have asked questions of similar nature, all such questions have nevertheless been included in this Information Notice and answered separately. This may result in repetition of information.

- Where a company name was mentioned in a question, it has been replaced by another word or term to anonymize the questions.

- TNO advises you to read the entire Information Notice.

- All information in the Information Notice is classified as Confidential and may only be used for the purpose of submitting aTender for this procurement.

-The Information Notice has been made available on TenderNed through publication at www.tenderned.nl and added as a document.

Nr	Subject	Question	Answer
1	Pr. Guide 2.2.7	For efficiency reasons we intend to participate as a single tenderer, taking full responsibility for the project. Are we allowed to use references from our supplier to enter the tender? We may also use resources from our supplier to fulfill the requirements but accept sole responsibility.	1 You can use references from your suppliers, under the condition that this is not just a procedural attempt to comply to the suitability requirements of your organization. The contracting Authority will demand proof that the experience and means of your suppliers will be used in executing the contract. 2 Referring to your next point, which we interpreted as a consideration for deploying third parties: Other than point 1 above, avoiding the possibility of uncertenty about the status of third parties is preferable: if this consederation is changed in a decision to use sub-contactors in this assignment, than for both your organization and the contracting authority the way the assignment will be excuted is clear. The procurement guide provides detailed instructions on how to deal with the varous documents of your tender.
2	Annex A02	The requested references are for InP applications, which is very specific. Will you accept references for comparible projects in the overall Compound semiconductor application space (GaAs, GaN, others)?	We need to be able to verify that the offered machine can be used for our application, so references for InP are mandatory.
3	Pr. Guide 2.2.20	Are PKI-certified electronic signatures accepted? Or is E-Herkenning level 4 mandatory?	Both are permitted.
4	Annex A04	We can offer a system with Chi range from -5 to 95 degrees and are sure we can cover all applications. Do you have specific requirements for the Chi ranges from -10 to -5 and 95 to 100 degrees? If yes, please descrive the applications. Do you accept an alternative approach that guarantees equivalent results?	A Chi range from -5 to 95 degrees is acceptable as long as the Tenderer shall guarantee the analytical capabilities required in R-1100-025.
5	Annex A04	Instead of a beam knife (edge), we offer an alternative solutions with 1 incident and 2 receiving slits (all motorized). This provides equivalent highest quality results including grazing incidence applications with higher flexibility than beam knife. Will you accept this as an allowed solution instead of the beam knife?	Yes this is acceptable as long as the Tenderer shall guarantee the analytical capabilities required in R-1100-025.

6	Annex A04	R-1100-005 Phi: 360 unlimited: Does 360° unlimited refer to unlimited rotation of the sample holder or the ability to reach any of the azimuthal orientations in 360° range? An infinite rotation capability is not necessary for the measurement requirements.	This is correct. It does not need infinite or continuous rotation.
7	Annex A04	Chi: Specifications ask for a range from -10 to 100°. None of the required or even plausible thin film applications need a tilt to 100°. Can you explain this requirement and is a tiliting capability of up to 92° also accepted.	Yes this is acceptable as long as the Tenderer shall guarantee the analytical capabilities required in R-1100-025.
8	Annex A04	R-1100-010 Xray source power operating range is specified from 2.0kW to 4kW or higher. We are offering a special High Resolution Cu X-Ray tube with a operating power limit at 1.8kW, is this acceptable if it still complies with the requirements for the measurement such as precision, throughput etc.?	Yes this is acceptable as long as the Tenderer shall guarantee the analytical capabilities required in R-1100-025 and the throughput requirements in R-1300-005.
9	Annex A04	The Tender specification (R-1200-015 & R1300-005) refer to the requirements R-2000-015 which is not present in that document. Can you please update the table accordingly.	The correct reference, in both R-1200-015 and R-1300-005, is R-1100-025. Since filling in Annex A04 may be well on its way at this moment, Tenderers are asked to take this change into account themselves.
10	Annex A04	R-1300-005 The specified required throughput gives 53 seconds to perform all necessary measurements on each spot including all supporting movements and alignments. **1** Is this number assuming a minimal viable measurement for a best case scenario or is it also required for realistic measurements where a symmetric and asymmetric scan may be needed on each spot to decouple composition and strain effects. **2** This specification refers to R-2000-015 which does not exist, can you please specify the detailed requirements here	Concerning point 1: This throughput is indeed based on a minimum required measurement to validate basic layer thickness and strain requirements as in-line production check. High-accuracy measurements for process set up and finetuning are allowed to take more time. Tenderers are requested to indicate which accuracy can be achieved at maximum throughput Concerning point 2: see our answer to question nr 9.