Sultan Qaboos University
Procurement Department

جامعة السلطان قابوس
دائرة المشتريات

REQUISITION FORM

Requisition Number:1234220100

Last Date for Submission:11/07/2022

S.N.	SQU Product Code	Description	Qty.	UOM	Remarks
1	EQUSYSMIC0001	SCANNINIG ELECTRON MICROSCOPE	1	NOS	Supply, installation and commissioning of Benchtop Scanning Electron Microscope with EDX microanalyses SPECIFICATIONS: 1.Electron Optical System 1.1 Electron gun: Tungsten hairpin filament type. The filament should be able to replace by the user, does not require a dedicated service engineer. 1.2 Accelerating voltage: variable from 5 kV to 15 kV in at least 3 steps. 1.3 Magnification range: variable from at least x10 to x100,000 times or more while maintaining the same resolution in the mentioned range. 1.4 condenser lens : electromagnetic 2-stage zoom condenser lens system. 1.5Automatic alignment, focusing, astigmatism and brightness/contrast correction built-in.

					2.Specimen Chamber 2.1 specimen size :80mm (diameter) x 50mm (height) and more. 2.2 travel range in the X and Y directions: at least 40mm and 40mm. 2.3 CCD camera: Preferably of the same brand as the SEM and it should be built-in the top of airlock chamber. The captured image by CCD should be utilized in order to specify the measurement point on the Graphic User Interface (GUI) as navigation function linked to stage movement. This system should have a function when we zoom up from the CCD image, it will continue seamlessly to the SEM image. 3.Vacuum System: fully automatic system 3.1The microscope must be support both high vacuum and low vacuum capability. 3.2The vacuum mode can be selected from GUI or the evacuation mode button of the main unit. When switching between high vacuum and low vacuum mode and vice versa within short time. --- for more specification details please contact: Ms. Nusaiba Al Azri nazri@squ.edu.om - 24142753 Mr. Sulaiman Al-Azri sulaiman87@squ.edu.om - 24141368