

Tender Reference: F. No. INST/12(304)/2021-Pur Dated 18.02.2022 (Tender ID: 2022_INST_674400_1) for the Supply and installation of “High Resolution X-Ray Diffractometer (XRD) with Accessories”

Corrigendum

		Tender Specification	Modified Specification
X-ray generator	Cooling Unit	Internal Chiller for cooling the tube. Should have cooling unit associated with it	Internal/External chiller for cooling the tube. Should have appropriate cooling unit associated with it.
Divergence Slit		Computer controlled programmable Automatic slit; 0.05 to at least 10 mm step size of 0.01 mm	Computer controlled programmable Automatic slit; 0.05 to at least 10 ± 3mm step size of 0.01 mm
Receiving Slit		Computer controlled programmable Automatic slit; 0.05 to at least 10 mm step size of 0.01 mm	Computer controlled programmable Automatic slit; 0.05 to at least 10 ± 3mm step size of 0.01 mm
Antiscatter Slit		Computer controlled programmable Automatic slit 0.05~20 mm, 0.01 mm step.	Computer controlled programmable Automatic slit 0.05-10 mm or better, 0.01 mm step.
Soller Slit		2.5 And 5 deg (Incident and Receiving both). No realignment necessary after exchange	Must be 2.5 deg (Incident and Receiving both). Additionally 5 deg may be provided for which no realignment should be necessary after slit exchange.
X-ray Detector		1D silicon strip detector with minimum 192 channels. All quoted channels should be fully functional Pixel Size: 75µm Dynamic range of the detector: 10 lakh cps/line or more/Global range: 10 ⁸ cps or more Angular Coverage: 3 deg (two theta) Spatial resolution: 75 micrometer Energy Resolution: < 1000 eV >99 % efficiency for Cu, Co and Cr radiation. To be capable of detecting other radiation like Mo with >= 40% efficiency Automatic absorber	1D silicon strip detector with minimum 192 channels. All quoted channels should be fully functional Pixel Size: 75µm Dynamic range of the detector: 10 lakh cps/line or more/Global range: 10 ⁸ cps or more Angular Coverage: 3 deg (two theta) Spatial resolution: 75 micrometer Energy Resolution: 1600 eV or better >99 % efficiency for Cu, Co and Cr radiation. To be capable of detecting other radiation like Mo with >= 40% efficiency

		Automatic absorber
Optional Point Detector	<p>>160 channels (up to 2400) Pixel Size: 75µm Dynamic range of the detector: 10 lakh cps/line or more/Global range: 10⁸ cps or more Angular Coverage: 2.5 deg (two theta) Spatial resolution: 75 micrometer Energy Resolution: < 1000 eV >99 % efficiency for Cu, Co and Cr radiation. To be capable of detecting other radiation like Mo with >= 40% efficiency Automatic absorber</p>	<p>>160 channels (up to 2400) Pixel Size: 75µm Dynamic range of the detector: 10 lakh cps/line or more/Global range: 10⁸ cps or more Angular Coverage: 2.5 deg (two theta) Spatial resolution: 75 micrometer Energy Resolution: 1600 eV or better >99 % efficiency for Cu, Co and Cr radiation. To be capable of detecting other radiation like Mo with >= 40% efficiency Automatic absorber</p>
	<p>Bidder should have installed minimum five numbers of similar types of instrument in at least five govt. organizations/R &D laboratories. Installations report to be provided with tender.</p>	<p>Bidder should have installed similar types of instrument in at least two or more govt. organizations/R &D laboratories. Installations report to be provided with tender.</p>

Note: Other specifications and T&C remains the same.