

**Technical Specification for Sphygmocor®XCEL(Quantity: 2)**

**Description:** SphygmoCor® Xcel is the FDA approved, clinically validated, global gold standard technology for assessing the shape of the pulse and the stiffness of the arteries at a person’s heart, to provide critical information that cannot be obtained from the standard cuff blood pressure measurement

The SphygmoCor®XCEL provides two methods to assess the vascular stiffness, viz.

- Pulse wave Analysis (PWA): The SphygmoCor XCEL PWA device provides measurement Central Aortic Blood Pressure and Augmentation index in 60 seconds.
- Pulse wave velocity (PWV) : For cfPWV measurement, a cuff is placed around the femoral artery of the patient to capture the femoral waveform, and a tonometer pressure sensor is used to capture the Carotid waveform. The system automatically analyses the waveforms to assess the pulse transit time and calculates the PWV based on PTT and user defined pathlength values.

Given the extensive research and multi-centric clinical validation studies planned in the proposal it is required to procure at least 2 no.s of the SphygmoCor Xcel device.

S.NO	Technical Specifications	COMPLIED/NOT COMPLIED	CATALOGUE PAGE NO
1.	<p><b>SphygmoCor Xcel with</b></p> <p>a)Pulse Wave Analysis (PWA)  b)Pulse Wave Velocity (PWV)  c)Central BP  d)Accessories</p> <p><b>Measurement features to be supported:</b></p> <p>a)Automated, cuff-based system and measurement of brachial and central blood pressures  b)Measurement of arterial stiffness by Pulse Wave Analysis and Carotid-femoral (Aortic) Pulse Wave Velocity  c)Single step PWV via carotid tonometry and thigh cuff  d)Central aortic blood pressure waveform  e)Central Aortic Systolic BP, Diastolic BP, Mean Arterial BP and pulse pressure  f)Augmentation Index</p>		
2.	Operating temperature	+15 to 40 degree Celsius	
3.	Operating relative Humidity	15% to 95% non-condensing	
4.	External Power	100-240 VAC, 50-60Hz	
5.	Physical Specifications	Enclosure Material(Polycarbonate) Weight: 0.7 kg; Dimensions: 9.9 (l)* 19 (w) * 17.2 (h) cm	

6.	Range	NIBP, PWV (Sys: 50 – 260 mmHg Dia: 40 – 200 mmHg) Heart rate (30 – 220 beats per min)		
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(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)