

TECHNICAL BID PROFORMA

Item Name: High Precision Physiological Volume Flow Meter

1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied at least 2 similar items to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.			

3.0 Technical Specifications

S.No	Specifications	Complied / Not Complied	Reference, Page. No.
1	The device should provide precise fluid volume flow.		
2	The device should be able to interface with a PC with standard USB port.		
3	The device should provide analog outputs with data export options		
4	The device should have excellent signal stability and no electrical interference.		
5	The device should be insensitivity to flow turbulence, flow probe and vessel alignment, and changes in vessel diameter		
6	The device should be interface able with ADInstruments Power Lab via standard DIN connector, for synchronised acquisition of other physiological signals as transmural pressure, ECG etc.		
7	The system should be supplemented with perivascular accessories including cables, acoustic couplants, and stabilization products.		
8	The system should aid the mix-and-match combination of perivascular or tubing flowmeter.		
9	In addition to the above, the Physiological volume flow meter supplied should conform to the detailed specifications as listed in the table below		
	OS compatibility for device software	Windows 10	
	Number of channels	1	
	Flow range	< 1 ml/min	
	Bandwidth	160 Hz	

	Perivascular flow probes			
	Standard size for mice and large animals	0.5 to 0.7 mm		
	Cardiac output probes	8 to 32 mm		
	Terms and Conditions:			
1	The equipment must have one year warranty.			
2.	Description: Physiological volume flow meter is used to perform accurate and precise fluid volume flow measurements non-invasively from superficial vessels. They are ideal in terms of practice, application, and procedure in all vascular research ecosystems – animal model, ex-vivo, and in-vitro flow studies. Given that these devices are highly reliable, easy to use, and provide accurate true volume flow, they are important for vascular hemodynamic research activities planned in the project, it is required to procure 1 unit of this system with different probes compatible for different blood vessel/tube sizes.			

(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)

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**