TECHNICAL BID PROFORMA

Item Name: "Lower Body Negative and Positive Pressure Chamber with Control System" Bidder Eligibility Criteria:

Ι	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
Ι	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 R&D organizations or institutions in India or abroad 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 Compliance:

Technical specifications required for one unit of Lower Body Negative and Positive Pressure Chamber with Control System Specifications: -

S.no	Specifications	Complied / Not Complied	Reference Page No.
1	A fully functional and tested LBNP/LBPP chamber, that is able to emulate negative and positive pressures within it, should be provided.		
2	The chamber diameter and length should be able to accommodate average human subjects lower half, till iliac crest. Adjustable head rest to be provided for adjusting as per height requirements		
3	The chamber should facilitate easy entry of the subject and then should be able to seal around the waist.		
4	The seal should be leak proof so that vacuum or positive pressure can be generated within the chamber.		
5	Restraints for knee, ankle, upper torso and chest should be provided along with the waist sealed shroud.		
6	The chamber should provide facility to tilt the table on which the subject is hosted.		
7	Pressure within the chamber should be regulatable both manually and automatically with at least a gradation of ± 5 mmHg		
8	Manual override controls should be provided for immediate returning to baseline pressure for safety purposes		

9 10	Provision should be provided for data capture, storage and retrieval, from within the chamber of the vacuum, pressure and temperature values with suitable PC. In addition to the above, the LBNP/LBPP chamber supplied should conform to the detailed specifications ns as listed below				
	Mounting table size (length				
	Tilt able angle for table	+/- 60 deg. Max			
	Chamber cross-section	600mm width x 600mm height			
	Chamber length	1250 mm length			
	Chamber material	Standard 55 sheet/plate			
	Negative pressure range	-10 mmHg to -60 mmHg			
	Positive pressure range	0 mmHg to +40 mmHg			
	Graded increase step size	+/- 5 mmHg			
	Terms and Conditions:				
1	The equipment must have one y				
2	On-site installations and testing at IIT Madras, Chennai is must.				

(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