

Item Name: Sensor Enabled Virtual Reality Headsets

1.0 Bidder Eligibility Criteria:

S.No	Bidder Eligibility Criteria-II	Complied/Not Complied	Reference Page No.	Remarks, If any
1	The supplier/vendor must be an original equipment manufacturer or an authorized agent/dealer/seller of the item. The vendor should have supplied at least 5 similar units at other IITs or NITs, or national laboratories and research centres (DRDO/CSIR/BARC/IGCAR), or R&D centres of reputed multinational companies, or globally recognized universities, in the last 5 years. PO copy, or performance certificate, along with contact details (for these organizations) needs to be submitted			

2.0 Technical Compliance:

Sl.No.	Specifications	Complied/Not Complied	Reference Page No.
1.	Display: Dual LCD 2.8''or higher, At least 2160 x 2160 pixels per eye for each of the two eyes, At least 90 Hz refresh rate supported. The display should be compatible for users wearing glasses. The field of view should be at least 110 Degrees.		
2.	Sensors: Windows Mixed Reality inside/out 6 DOF motion tracking, gyroscope, accelerometer, and magnetometer. The headset should have Eye Tracking with pupillometry and heart rate functionality. The headset should also have a face camera, 2 front-facing cameras and 2 side-facing cameras, for motion tracking without the need for external hardware for tracking		
3.	Connections: DisplayPort™ 1.3 or better, USB 3.0 type C, power adapter, One or more at least 6m or longer 2-in-1 (DisplayPort 1.3 + USB 3.0 type C) cable, and one power adapter (for use when USB-C does not have power delivery). Mini DisplayPort to Full size DisplayPort adapter must be supplied.		
4.	Controllers : Windows Mixed Reality tracking, IMU, active LEDs, Bluetooth connectivity, Buttons with functions such as, Menu button, Windows Start button, Grip trigger, and Thumbstick. The controllers should be supported through standardized batteries such as AA type, and not with live charging or any other connection.		
5.	Audio and Speech : Dynamic Head-Related-Transfer-Functions, for more authentic audio immersion.		

6.	Universal size adjustment and a Soft Strap, Eye adjustment of 64mm +/- 4mm by hardware slider.		
7.	Should be equipped with cognitive load estimator. Advanced tools and SDK support with Unity and Unreal engine, especially that Eye-tracking and Pupillometry API, Lower Face Camera API, Heart Rate API, and Pulse Rate Variability API should be accessible without any additional cost.		
1.	Warranty:	3 years onsite.	
2.		Optional Quote-1: Additional 2 years warranty may be quoted separately.	
3.		Optional Quote-2: AMC beyond 3 Years Warranty period	
4.		(Optional quotes will not be taken up for price bid comparison	
Other Terms and Conditions			
1.	The system should be delivered within 14-16 weeks from the opening of the letter of credit or issue of the purchase order, whichever is later.		
2.	Costs and related information should be given only in the financial bid.		
3.	The cost should include all delivery costs up to IIT Madras.		
4.	The warranty shall commence only from the date of equipment installation at IITM.		
5.	Prices quoted should be valid for at least 120 days.		
6.	Item-wise break up of cost should be provided in the commercial bid for optional items and accessories.		
7.	IIT Madras reserves the right to exclude some items from the purchase. As part of tender technical evaluation, IIT Madras will approach the past end users for feedback and in case of any adverse feedback the bidder will be technically disqualified.		
8.	The system should be installed and commissioned with no additional cost.		
9.	Training at IIT Madras should be provided with no additional cost.		
10.	System manual should be provided in CD or pen drive form.		
11.	Services and spares should be readily available within India.		

S.No	Technical Bid should comprise of the following	Complied/Not Complied	Reference Page No.
1.	Detailed Technical brochure		
2.	Detailed technical write up explaining how each of the Technical Specifications are complied with, indicating the location in the brochure		
3.	The list of multiple Institutions/R&D units/Industry where similar installations have been supplied in India/abroad including contact details (name of the person in-charge, email, and phone number) is to be provided		
4.	The vendor should guarantee round the clock technical support not only during the warranty period but even beyond through an annual maintenance contract. Demonstration of having provided such satisfactory technical support to customers shall be enclosed with the technical bid.		
5.	The manufacturer must have a well-qualified technical support team		

(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**