

Name of the Work:Supply, Delivery, Installation, Training & Maintenance of Hardware Kits and Software for Artificial Intelligence (AI) Labs in the State of Goa

Ref. Tender No.ITG-IT/1025/AILabs-MPLAD/2023-24/2912 dated: 19.01.2024

A	B	C	D	E	F
S.No.	Tender Document Page No.	Tender Document Clause No	Clause Details	Query/	Reply
1	32	Chapter 6 Eligibility Criteria	<b>Bidders experience clause:</b> The requirement for bidders to produce 03 work orders worth 05.00 Cr. during the last 07 financial years is the concern	<b>Suggestion:</b> I request to revising the timeframe to last 03 financial years as the bidder turnover asked for is only 03 years.	No change. Details as per mentioned in the Tender Document.
2	64	12. Warranty Clause (d)	The specified response time to resolve issues within 48 hours or the penalty of Rs. 100.00 will be imposed	<b>Clarification:</b> considering that some hardware components may not be readily available and could take more than 48 hours to procure, it is essential to clarify this aspect	No change. Details as per mentioned in the Tender Document. However Force Majeure clause(No. 18) in chapter 12 "General Terms and condition" is applicable herein.
3	13	Chapter 3: scope of the Work Table - B (Functional Specifications)	4. AI Robotic Arm: A sophisticated robotic arm with AI- driven capabilities, including intelligent object pick and place with a minimum dimension of 180mm*180mm*180mm. It should utilize advanced bus servos for control and should integrate with different sensors for enhanced functionality. The system should comprise 4- degree-of freedom. The structure should be crafted from a combination of robust aluminum materials. This system should feature a sophisticated linkage mechanism designed to enhance the learning of inverse kinematics. It should seamlessly integrate with at least different sensors, enabling the execution of diverse tasks. Moreover, its adaptability should allow it to replicate industrial scenarios effectively. The kit should be robust, reusable, and suitable for continuous institutional use. Packaging Box – Environment- Friendly Rigid Box made up of cardboard with a minimum 1.1 mm thickness. Dimension of boxes- minimum 331*300*170 mm Material: Water- Resistance Inside Packaging: cushioning/EPF Hard and Soft Foam.	The kit description indicates that it should be AI-driven with the ability to perform object pick and place tasks. Is it required to include a camera module in the kit?	The specification of the AI Hardware kits mentioned in the Tender Document indicates the minimum requirements. As such, it is upto the Bidder to provide with Higher functionalities/specifications during the actual supply of AI Hardware Kits.  No change. Details as per mentioned in the tender document

4	32	Chapter 6 Eligibility Criteria	<p>Bidder's Experience: Bidder/Prime Bidder must have successfully executed during the last 07 years (as on the date of bid submission), at least any one of the following. Three works, each comprising of carrying out Supply, Installation and Commissioning of AI /Robotics Activities /Smart Classroom Equipments for Govt./PSUs /Govt. agencies/Govt. Aided agencies of value not less than Rs. 5 Crores in India. OR Two works, each comprising of carrying out Supply, Installation and Commissioning of AI /Robotics Activities /Smart Classroom Equipments for Govt. /PSUs /Govt. agencies/Govt. Aided agencies of value not less than Rs. 7 Crores in India. OR One work comprising of carrying out Supply, Installation and Commissioning of AI /Robotics Activities /Smart Classroom Equipments for Govt. /PSUs /Govt. agencies/Govt. Aided agencies of value not less than Rs. 10 Crores in India</p>	<p>Kindly Consider Atal Tinkering Lab Experience, considering companies with prior experience in Atal Tinkering Labs for the initiative. These firms bring a unique understanding of the specific requirements and operational nuances, ensuring a smoother integration into the existing framework. Their proven track record in successfully implementing similar projects positions them as valuable contributors, capable of delivering quality results within defined timelines. Opting for companies with Atal Tinkering Lab experience not only streamlines the selection process but also enhances the project's efficiency and effectiveness. This decision holds the potential to significantly benefit the participating schools and students.</p>	<p>The experience related to Atal Tinkering Labs will be considered, if it is related to Supply of AI/Robotics items to Govt. /PSUs /Govt. agencies/Govt. Aided agencies. The necessary documentation to be provided by the Bidder in this regard..</p>
5	79	Chapter 15 Technical Bid Format Table A	<p>9. Weather station:Wind vane -Current Type(4 to 20mA),work normally in – 20 °C ~ + 50 °C, humidity 35% ~ 85%, external power (DC 12-24V),current in the range of 4mA to 20mA, Mounting Mast Rain Gauge - 0.2794mm of rain cause one momentary contact closure that can be recorded with a digital counter or microcontroller interrupt input Mounting Arm - weathers station munt arms of rain gauge Cup Anemometer - wind Speed Measurement tool. anemometer switch Relevant software - Debian Bullseye Software</p>	<p>Please mention additional information regarding the kit like the Controller used in the kit.</p>	<p>The specification of the AI Hardware kits mentioned in the Tender Document indicates the minimum requirements. As such, it is upto the Bidder to provide with Higher functionalities/specifications during the actual supply of AI Hardware Kits.</p> <p>No change. Details as per mentioned in the tender document</p>

6	72	Chapter 15 Technical Bid Format Table-A	1. Vision Kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
7	72	Chapter 15 Technical Bid Format Table-A	2 Voice kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
8		Chapter 15 Technical Bid Format Table-A	3 Advanced AI Robotics kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.

9		Chapter 15 Technical Bid Format Table-A	4 AI Bionic Arm kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
10		Chapter 15 Technical Bid Format Table-A	5 AI Smart City kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
11		Chapter 15 Technical Bid Format Table-A	6. AI Robotics Arm	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.

12		Chapter 15 Technical Bid Format Table-A	7. AI Space Exploration Kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
13		Chapter 15 Technical Bid Format Table-A	8. AI Smart Farming	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
14		Chapter 15 Technical Bid Format Table-A	9. Weather Station	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.

15		Chapter 15 Technical Bid Format Table-A	10. Satellite Communication Kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
16		Chapter 15 Technical Bid Format Table-A	11. AI Smart Healthcare Kit	Please provide a reference image for the kit. This will facilitate ensuring the precise kit needed for the lab.	ITG has given the functionalities/specifications requirements in the tender document. The bidder/vendor is supposed to quote/supply items as per the functionalities/specifications/requirements given in the tender document. As such it is upto bidder/vendor to provide the best items/kits matching the requirements.
17				<b>Note:</b> Organizing a demonstration for the kits would be highly beneficial, allowing potential bidders to visit and gain a more comprehensive understanding of the products to be provided	As per the Tender Document, Bidder is supposed to give Technical Presentation during the timeslot that shall be allocated to Bidder(s) in accordance with "Chapter 4 Tender Data Sheet , Table Point 14". Wherein during the presentation, Bidder is expected to present its Hardware Kits matching towards technical/functional specification/requirements.
18	13	3	Packaging Box – Environment-Friendly Rigid Box made up of cardboard with a minimum 1.1 mm thickness Dimension of boxes- minimum 331*300*170 mm Drawer: Minimum One Drawer box Material: Water- Resistance Inside Packaging: cushioning/EPF Hard and Soft	<b>Suggestion:</b> Cardboard is not water resistant so plastic box should be allowed.	Durable and environment friendly boxes with water resistant.
19	16	8	Dimension of Covering Box: 380*148*410mm	<b>Suggestion:</b> The dimension can be changed to minimum dimension.	The dimensions mentioned indicates the minimum and compatible range.

20	19	Table-C	List of activities	Clarification: 1. Additional material will be required to create some of these projects, so should bidders add these considerations into the technical and financial implications? 2. Are these DIY models or they are ready-made models for display/showcase?	It is prerogative of the Bidder to provide full functionality of the AI Hardare kits at the cost to be managed within quoted price.
21	22	7.o	Alternate month onsite training of each school for 1 year for handholding activities.	<b>Query:</b> Please clarify the duration of the training in alternate months.	Alternate month onsite training will be refresher to teachers in each school for 1 year for handholding activities.
22	23	9	Warranty and Support	<b>Clarification:</b> Please clarify who will do the student training? Whether it will be the existing school teachers trained by the bidder or will the experts of the bidder conduct the student sessions?	Training to students will be imparted by teachers which are in turn trained by personnel from the selected vendor.
23	23	10	Table - D: Training and Change Management	<b>Query:</b> Please clarify the duration of the training and project implementation phase.	As per details mentioned in the Tender Document.