Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 11:00:00
Bid Opening Date/Time	27-07-2020 11:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Niti Aayog - National Institution For Transforming India
Department Name	Atal Innovation Mission
Organisation Name	Atal Tinkering Lab
Office Name	India
Total Quantity	10
Item Category	Microcontroller Educational Kit **(PAC Only)**
Experience Criteria	3 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Certificate (Requested in ATC),OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No

ePBG Detail

Required	No

Splitting

Bid splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

Microcontroller Educational Kit (10 pieces) (Under PAC)

Make	ekaksh
Model	e-kakshmakerboard-01

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
FEATURES AND FUNCTIONALITY PARAMETERS OF MICROCONTROLLER EDUCATIONAL KIT	**Name of Microcontroller kit**	8051	8051
	Onboard study cards included in the scope of supply	8255-6 (Deal with Programmable peripherals interface chip in various modes),8251-4 (Deal with Universal Synchronous/Asynchronous Reciever Transmitter),8254-4(Deal with programmable timer/counter chip in all modes),8279-4 (Keyboard display controller),8259-4(Programmable Interrupt controller),DMA-4(Direct Memory Access chip in different modes),A to D-6 (Analog to Digital conversion),D to A-6 (Digital to Analog conversion),Card for Stepper Motor,Card for DC Motor,Other study cards	8255-6 (Deal with Programmable peripherals interface chip in various modes), 8251-4 (Deal with Universal Synchronous/Asynchronous Reciever Transmitter), 8254-4(Deal with programmable timer/counter chip in all modes), 8279-4 (Keyboard display controller), 8259-4(Programmable Interrupt controller), DMA-4(Direct Memory Access chip in different modes), A to D-6 (Analog to Digital conversion), D to A-6 (Digital to Analog conversion), Card for Stepper Motor, Card for DC Motor, Other study cards
	If other then indicate name/no of onboard study card	ARDUINO NANO	*
	Availabilty of Power supply section	Yes	*
	Availabilty of Interface section	Yes	*
	Availabilty of I/O Interface	Yes	*
	Availabilty of interfacing present on microcontroller kit	LED interfacing,Keyboard interfacing,LCD interfacing,Relay interfacing,Seven segment display interfacing,Other	LED interfacing, Keyboard interfacing, LCD interfacing, Relay interfacing, Seven segment display interfacing, Other
	If Other in above parameter then indicate types of interfacing	ADC, PWM, LCD	*
	Availabilty of memory storage devices present on microcontroller kit	Monitor EEPROM,SRAM for user Data,Battery Backup RAM,EE,Other	Monitor EEPROM, SRAM for user Data, Battery Backup RAM, EE, Other
	If Other in above parameter then indicate types of memory storage devices	ON BOARD	*

	Memory capacity of Monitor EEPROM	4,8,16,32,64,128,256,NA	4, 8, 16, 32, 64, 128, 256, NA
	Provision of CD (Soft Copy) with sample project code, Programmer software & useful documents	Yes	*
	Number of I/O Pins for External Interface	32	32
	Availabilty for Onboard 7 Segment multiplexed display	Yes	*
	Availabilty for Onboard LCD/LED display	Yes	*
	If yes, then Size of LCD/LEDdisplay (in character)	16x2,20x2,128x64,NA	*
	Number of Onboard switches available	4,8,16,32,64,72,NA	4, 8, 16, 32, 64, 72, NA
	Availabilty for Onboard FRC(Flat ribbon connector) for Bus Extension	Yes	*
	Availabilty for Onboard DB connector for UART (RS232) interface	Yes	*
	Operating Frequency in Hertz	12	*
	Availabilty of Watchdog timer to automatically reset an embedded device that hangs because of a software or hardware fault	Yes	*
	Availabilty of Digital Temperature sensor	Yes	*
	Availabilty of two pushbuttons for interrupts study	Yes	*
	Indicate the details of Interrupts present in microcontroller kit	TF0	*
	Availabilty for Real Time Applications with sensor	Yes	*
	Facility to interface external modules	Yes	*
	Connection Cable used	USB Cable,User Interface Cable,NA	*
OPEARTING CONDITION	Minimum Operating tempature for microcontroller kit in degree celsius	-10,-5,0,+5,+10	*
	Maximum Operating tempature for microcontroller kit in degree celsius	35,45,55	*
	Operating Humidity for microcontroller kit (RH)	80%,85%,90%,95%	*
TEST CERTIFICATION AND	**Whether the offered kit**	No	No

PAST EXPERIENCE	**tested at Central Govt / NABL approved / ILAC accredited Lab, any NABL accredited lab, govt lab/international lab to prove conformity to the specification**		
	If Yes, Test Report to be furnished to the Buyer on demand	Yes	*
	If yes, then indicate the name of the lab	NA	*
	If yes, then indicate the test certificate number & date	NA	*
	Whether manufacturer of offered product has national/international certification (such as ISO, TUV, etc)	No	*
	If yes, then indicate name of certification & certificate number and date	NA	*
	Institute where the offered microcontroller kit supplied in the past(Non biddable parameter)	IIT,NIT,Central University,Others	*
	Specify the names of the institute where the microcontroller kit supplied in the past with complete address	KV Govt School	*
GENERIC PARAMETERS	Installation and Demonstration included in the scope of supply	Yes	*
	List of items and its number included in the offered package	ALL	*
	Supplied with comprehensive user manual	Yes	*
	Warranty of Microcontroller kit	1	1

 * Specifications highlighted in bold are the Golden Parameters.
 * Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Shrihari Pachouri	470235,GOVT HIGH SCHOOL GHANA KESLI	10	15

Bid Specific Additional Terms and Conditions

    1.ISO 9001: The bidder must have ISO 9001 certification.

This Bid is also governed by the General Terms and Conditions

---Thank You---