

Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 17:00:00
Bid Opening Date/Time	21-07-2020 17:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Human Resource Development
Department Name	Department Of School Education And Literacy
Organisation Name	Navodaya Vidyalaya Samiti (nvs)
Office Name	Jawahar Navodaya Vidyalaya Janjgir Champa Cg
Total Quantity	1
Item Category	Microcontroller Educational Kit (PAC Only)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Microcontroller Educational Kit (1 pieces) (Under PAC)

Make	tiotsystemprivatelimited
Model	microcontrollertrainingkit

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 Receiver 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	ADVANCE PROTOTYPING	*
	Availability of Power supply section	Yes	*
	Availability of Interface section	Yes	*
	Availability of I/O Interface	Yes	*
	Availability 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	Laser engraver	*

interfacing		
Availability 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	32KBytes	*
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	8, 16, 32
Availability for Onboard 7 Segment multiplexed display	Yes	*
Availability 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
Availability for Onboard FRC(Flat ribbon connector) for Bus Extension	No	*
Availability for Onboard DB connector for UART (RS232) interface	Yes	*
Operating Frequency in Hertz	250000	*
Availability of Watchdog timer to automatically reset an embedded device that hangs because of a software or hardware fault	Yes	*
Availability of Digital Temperature sensor	Yes	*
Availability of two pushbuttons for	Yes	*

	interrupts study		
	Indicate the details of Interrupts present in microcontroller kit	ADC	*
	Availability 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 PAST EXPERIENCE	Whether the offered kit tested at Central Govt / NABL approved / ILAC accredited Lab, any NABL accredited lab, govt lab/international lab to prove conformity to the specification	Yes	Yes, No
	If yes, then indicate the name of the lab	NO	*
	If yes, then indicate the test certificate number & date	NO	*
	Whether manufacturer of offered product has national/international certification (such as ISO, TUV, etc)	Yes	*
	If yes, then indicate name of certification & certificate number and date	1650SAFV2018	*
	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	NIT MANIPUR	*
GENERIC PARAMETERS	Installation and Demonstration included in the scope of supply	Yes	*
	List of items and its number included in the offered package	YES & 8	*
	Supplied with comprehensive user manual	Yes	*
	Warranty of Microcontroller kit	1,2	1, 2, 3, 5

* 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	Santosh Kumar Kashyap	495661,Jawahar Navodaya Vidyalaya Chisda, Post-Pendri, Via-Birra, District Janjgir Champa [CG] Pin-495661	1	45

Bid Specific Additional Terms and Conditions

1. After award of contract – Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 7 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 7 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing– the delivery period shall be refixed without LD for the period of delay in approval of Drawing.
2. Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide AMC Service for next 3 years for the offered products at the rate not more than 10 % of contract price per annum. Buyer reserves the right to enter into an AMC agreement (covering preventive maintenance and servicing)with the Successful Bidder / OEM after expiry of the Warranty period at rate as mentioned above and the payment for the AMC charges would be made Annually after rendering of the AMC Services of the relevant AMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the AMC contract when called upon by the buyer. The original Performance Security of

contract will be returned only after submission and verification of AMC Performance Security for 2% of total AMC value valid up to AMC period plus 2 months (if there is no other claim). (Undertaking of acceptance to be uploaded with bid).

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---