

**BVM Engineering College**  
**(An Autonomous Institution)**  
**P.O. Box No: 20, Vallabh Vidyanagar, Gujarat-388120**  
**(Under AICTE- MODROB Scheme)**

**Tender Notice 3 : BVM/IT/2018-2019**

Sealed tender are invited by Principal, BVM Engineering College, Vallabh Vidyanagar, Gujarat for the Information Technology Department for supply of the following items.

**IoT and Artificial Intelligence Equipment**

Sr. No	Brief Description	Quantity	Specifications	Tender Cost	EMD
1	ARDUINO NANO R3 Board	05	Please see Annexure I	Rs. 500/-	Rs.1500/-
2	ARDUINO UNO R3 Board	05			
3	ARDUINO MEGA 2560 R3 Board	10			
4	RASPBERRY PI 3 Model B+ 64bit QUAD CORE with WIFI and BLE	05			
5	Sensor Kit	03			
6	NODEMCU LUA Based 15 in 1 IOT- WIFI Starter Kit	05			
7	USB Cable for Ardiuno/Raspberry Pi	10			
8	Adapter for Ardiuno/Raspberry Pi	10			

Tender Documents containing details of the items and terms and conditions may be downloaded from the College website and completed bidding documents are to be submitted to the Principal, BVM Engineering College, Vallabh Vidyanagar- 388120 till **03-12-2018 up to 15:00 Hrs** from the publication of this advertisement.

Principal,  
BVM Engineering College,  
Vallabh Vidyanagar

## General Conditions and Important Instructions for Bidders

### 1. Quotation,

1.1 The contract shall be for the full quantity as described above.

1.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.

1.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.

1.4 Applicable taxes shall be quoted separately for all items.

1.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

1.6 The Prices should be quoted in Indian Rupees only.

### 2. Each bidder shall submit only one quotation.

3. Quotation shall remain valid for a period not less than **60** days after the last date of quotation submission.

### 4. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

4.1 are properly signed ; and

4.2 Confirm to the terms and conditions, and specifications.

5. The Quotations would be evaluated for all items together.

### 6. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

6.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

6.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

**6.3 Security Deposit of 5% of total tender cost.**

7. Payment shall be made in Indian Rupees as follows:

**Delivery and Installation - 100% of total cost**

8. All supplied items are under warranty of **24 months** from the date of successful acceptance of items with free repairs and free replacement at our site.

9. You are requested to provide your offer latest by **15:00** hours on **03-12-2018**.

10. Detailed specifications of the items are at Annexure I.

11. Training Clause (if any) **Free Training at the time of Installation at our site**

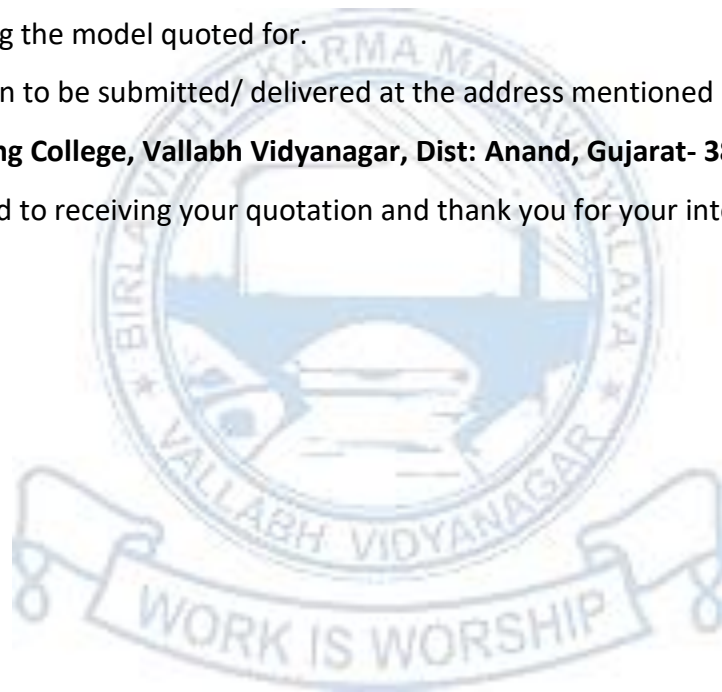
12. Testing/Installation Clause (if any) **Free Installation at the time of delivery at our site**

13. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

14. Sealed quotation to be submitted/ delivered at the address mentioned below,

**BVM Engineering College, Vallabh Vidyanagar, Dist: Anand, Gujarat- 388120**

15. We look forward to receiving your quotation and thank you for your interest in this project.



**Annexure I**

Sr. No.	Name of Instruments	Specification
1.	<b>ARDUINO NANO R3 BOARD</b>	<ul style="list-style-type: none"> <li>• Microcontroller: Atmel ATmega328</li> <li>• Operating Voltage (logic level): 5V</li> <li>• Input Voltage (recommended): 7-12V</li> <li>• Input Voltage (limits): 6-20V</li> <li>• Digital I/O Pins: 14 (of which 6 provide PWM output)</li> <li>• Analog Input Pins: 8</li> <li>• DC Current per I/O: Pin 40mA</li> <li>• Flash Memory: 32KB (of which 2KB used by boot loader)</li> <li>• SRAM: 2KB</li> <li>• EEPROM: 1KB</li> <li>• Clock Speed: 16MHz</li> </ul>
2.	<b>ARDUINO UNO R3 BOARD</b>	<ul style="list-style-type: none"> <li>• ATmega328 microcontroller</li> <li>• Input voltage - 7-12V</li> <li>• 14 Digital I/O Pins (6 PWM outputs)</li> <li>• 6 Analog Inputs</li> <li>• 32k Flash Memory</li> <li>• 16Mhz Clock Speed</li> </ul>
3.	<b>ARDUINO MEGA 2560 R3 BOARD</b>	<ul style="list-style-type: none"> <li>• ATmega2560 microcontroller</li> <li>• Input voltage - 7-12V</li> <li>• 54 Digital I/O Pins (14 PWM outputs)</li> <li>• 16 Analog Inputs</li> <li>• 256k Flash Memory</li> <li>• 16Mhz Clock Speed</li> </ul>
4.	<b>RASPBERRY PI 3 MODEL B+ 64 bit QUAD CORE With WIFI and BLE</b>	<ul style="list-style-type: none"> <li>• Broadcom BCM2837 64bit Quad Core Processor powered Single Board Computer running at 5 GHz</li> <li>• 1GB RAM</li> <li>• BCM43143 WiFi on board</li> <li>• Bluetooth Low Energy (BLE) on board</li> <li>• 40pin extended GPIO</li> <li>• 4 x USB 2 ports</li> <li>• 4 pole Stereo output and Composite video port</li> <li>• Full size HDMI</li> <li>• CSI camera port for connecting the Raspberry Pi camera</li> <li>• DSI display port for connecting the Raspberry Pi touch screen display</li> <li>• Micro SD port for loading your operating system and storing data</li> <li>• Upgraded switched Micro USB power source</li> </ul>
5.	<b>SENSOR Kit</b>	<ol style="list-style-type: none"> <li>1) Temperature sensor module</li> <li>2) Vibration switch module</li> <li>3) Hall magnetic sensor module</li> <li>4) Key switch module</li> <li>5) Infrared emission sensor module</li> <li>6) Laser sensor module</li> <li>7) Small passive buzzer module</li> <li>8) 3-color full-color LED SMD modules</li> <li>9) Photo interrupter module</li> <li>10) 2-color LED module</li> </ol>

		11) Active buzzer module 12) Water level module 13) Temperature and humidity sensor module 14) 3-color LED module 15) Mercury open optical module 16) Photo resistor module 17) 5V relay module 18) Tilt switch module 19) Image Sensor 20) Infrared sensor receiver module 21) XY-axis joystick module 22) Linear magnetic Hall sensors 23) Reed module 24) Flame sensor module 25) Magic light cup module 26) Soil module 27) 5mm red and green LED (common cathode) module 28) Knock sensor module 29) Obstacle avoidance sensor module 30) TCRT5000L sensor module 31) Automatic flashing colorful LED module 32) Analog Hall magnetic sensor module 33) Metal touch sensor module 34) Sensitive small microphone sensor module 35) Sensitive Big microphone sensor module 36) Finger measuring heartbeat module 37) Rotary encoder module
6.	<b>NODEMCU LUA BASED 15 in 1 IOT-WIFI Starter Kit</b>	<ul style="list-style-type: none"> <li>• 1 x Nodemcu development board</li> <li>• 1 x General Purpose breadboard</li> <li>• 5 x 220ohm resistor dip</li> <li>• 15 x Male to male jumper wire set</li> <li>• 15 x Male to female jumper wire set</li> <li>• 1 x Buzzer module</li> <li>• 1 x Button Module</li> <li>• 1 x Dual Led module</li> <li>• 1 x Digital Hall sensor Module</li> <li>• 1 x Relay module</li> <li>• 1 x RGB led Module</li> <li>• 1 x Water lever sensor module</li> <li>• 1 x LDR sensor Module</li> <li>• 1 x Tilt switch module</li> <li>• 1 x Laser Module</li> <li>• 1 x PIR sensor</li> <li>• 1 x Servo 9G</li> <li>• 1 x Flame sensor</li> <li>• 1 x Potentiometer</li> <li>• 1 x LM35</li> </ul>
7.	<b>USB cable</b>	<b>For Arduino board/ Raspberry Pi</b>
8	<b>Adapter</b>	<b>For Arduino board/ Raspberry Pi</b>

**FORMAT FOR QUOTATION SUBMISSION**  
(In letterhead of the supplier with seal)

Date: \_\_\_\_\_

To:

\_\_\_\_\_  
\_\_\_\_\_

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of \_\_\_\_\_ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No: \_\_\_\_\_