ABV-IIITM Gwalior

Ref:ABV-IIITMG/Reg/2026/1375 Date : 27/10/2026

Notice for Inviting Quotation

Update: Last Date Extended to 3rd December, 2026

Sub: Quotation for Supply of Autonomous Mobile Robot with Vacuum Cleaner

1. Quotations are invited in sealed cover for the supply of an **Autonomous Mobile Robot with Vacuum Cleaner**. You are requested to submit the competitive rates as per the specifications below along with the datasheet of the robot quoted.

Sr. No.	Item Description	Qty.	Total Amount
1.	**Autonomous Mobile Robot with Vacuum Cleaner**	1	

2. **Specifications:**

Features	Versions
ROS Compatibility	Both ROS1 and ROS2
Camera	One RGB camera and one RGBD (Intel RealSense D435i/Astro Pro 2/ OAK-D) camera
Microphone	An array of 4 to 8 omnidirectional microphones around the circumference of the robot, integrated with ROS
Speakers	Inbuilt speakers
Onboard Computer	RPI 4/5 or Jetson Nano
Onboard Computer Memory	Minimum 4GB
Remote Controller	Wireless/Bluetooth remote controller /Joystick controller
LiDAR	• 360° range • Measuring radius ≥8meter • Angular resolution ≤1°
Operating Time	≥ 60min without vacuum cleaning unit ≥ 20min with vacuum cleaning unit
Encoders	High-Precision encoders
Wheel Type	Rubber/Solid
Demonstrations	SLAM and Autonomous Navigation using ROS2 navigation stack with high accuracy
Vacuum Cleaning Unit	• On/Off Controllable using ROS1 and ROS2 • 3000 Pa or higher
Controller	Joystick
Installation	The vendor should preferably come physically to install the robot and demonstrate the robot at the chosen sites at ABV-IIITM Gwalior. The vendor may instead be present as a video conference to guide a research staff or student at ABV-IIITM Gwalior to complete both the installation and demonstration.

	A physical computer system would be provided to the vendor in which the installation and demonstration should be carried out.

3. **Quotation (Terms and Conditions):**
    a. The price should be quoted on F.O.R. ABV-IIITM Gwalior delivery basis.
    b. The quotation should be valid for 30 days from the date of submission.
    c. The institute has the right to increase or decrease the number of quantity.
    d. All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
    e. Applicable taxes, if any shall be quoted separately.
    f. Payment after successful delivery, installation, configuration and demonstration. The demonstration includes verification of all items of the specification.
    g. Delivered robot should have a warranty as per OEM.
    h. The quotations should contain the PAN, GSTIN number of the firm.

4. Last date for submitting the quotation is ~~**26.11.2026**~~ **3rd December** up to 5.00 PM. Any quotations submitted after the specified time and with incomplete information will not be accepted.

5. Sealed quotation (with "**Quotations for Autonomous Mobile Robot with Vacuum Cleaner**" written on top of sealed envelope cover) to be submitted/ delivered at the address mentioned below,

The Purchase Section,
ABV-Indian Institute of Information Technology and Management Gwalior,
Morena Link Road, Gwalior,
Madhya Pradesh, India-474015