

**Department of Electrical Engineering
Indian Institute of Technology Delhi**

Notice Inviting Quotations

Subject: NIQ for Mobile Robot and accessories.

Sealed quotations are invited for **Mobile Robot and accessories**. The specifications and accessories for mobile robot are given below.

Robot specifications:

a. Mobile Robot with base and front sensor

- (i) Body: Aluminum (powder coated)
- (ii) Tire: reinforced pneumatic
- (iii) Operating payload: At least 12 kg on floor.
- (iv) Front and rear Sonar sensors
- (iv) Four-wheel, four-motor drive movement (capable of forward/backward speed 0.7 m/s or more)

b. Accessories (To be compatible with the Mobile Robot along with supporting software)

(i) Wi-Fi Wireless adapter

[High-speed wireless communication for use on robot

- a) without onboard PC
- b) with onboard PC]

(ii) Gyroscopic correction system

(iii) Complete PTZ camera under mount

[Pan/Tilt/Zoom Camera System, including associated Tracking Software]

(iv) Battery (Three extra batteries for the robot)

[at least 7.0 Amp/Hour, sealed]

(vi) Fast 220V charger

[Direct plug-in Charger, adaptable Asia]

(vii) Onboard Computer

[Minimum 2.26 GHz dual core, 2 GB RAM, at least 40 GB solid state drive, USB, interface panels].

(viii) Linux and Windows XP embedded operating system for onboard computer

(ix) Laser range finder

(x) GPS