

**Department of Electrical Engineering  
Indian Institute of Technology Delhi  
Notice Inviting Quotations**

**Subject:** NIQ for Pioneer 3-Dx Mobile Robots and accessories.

Dated: 12/02/2013

Sealed quotations are invited for **three Pioneer 3-Dx Mobile Robots and accessories**. The specifications and accessories for each robot are given below.

**Robot specifications:**

**a. Pioneer 3DX Mobile Robot with base and front sensor**

- (i) Body: Aluminum (powder coated)
- (ii) Tire: Foam-filled rubber
- (iii) Operating payload: At least 17 kg.
- (iv) Differential drive movement (capable of forward/backward speed 1.2 m/s or more)

**b. Accessories** (To be compatible with Pioneer 3-Dx Mobile Robot)

**(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**

[Angular Rate Gyroscope to automatically correct motor encoder error]

**(iii) Complete PTZ camera under mount**

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

**(iv) Pioneer Battery** (Two extra batteries for each robot)

[12V, 9 Amp/Hour, sealed]

**(vi) Fast 220v charger**

[High-Capacity Charger, adaptable Asia]

**(vii) Onboard MAMBA Computer**

[Onboard 2.26 GHz dual core Industrial VersaLogic Mamba PC with PC104+ slots and miniPCIe buses, at least 2 GB RAM, at least 40 GB solid state drive, USB, interface panels].

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



**Terms and Conditions:-**

Please submit the TECHNICAL and FINANCIAL bids in two separate sealed envelopes. Mark the two envelopes clearly as “**Technical Bid**” and “**Financial Bid**”. Both the sealed envelopes should be sent in a single sealed envelope, with clearly marked as Quotation for “**Three Pioneer 3-DX Mobile Robots and Accessories**”. The quote should reach the following address on or before **04/03/2013 up to 4.00 pm**.

**Name : Dr. I. N. Kar**

**Address : Control Lab,  
Room No. II-214,  
Department of Electrical Engineering,  
IIT Delhi, New-Delhi – 110016 ( India )  
NB: Lab Technical staff Mr Jaipal Singh is authorized to  
collect the same on behalf of Dr. I. N. Kar**

1. Please quote the price at FOB / CIF New- Delhi, inclusive of installation charges.
2. For imported products, Quote should be in foreign currency and to be valid for at least three months.
3. Attach all technical literature and list of similar sales/installation done in India.
4. Warranty as per OEM.
5. Cost should include online support for installation and operation of the equipment for a period of one year. Mention about the type of support in the technical bid.
6. If the quote is being submitted by the representative of the principals/manufactures themselves, a valid Agency ship/ Dealership certificate authorizing the agent to quote to IIT Delhi on behalf of the Principals should be enclosed.
7. The institute reserves the rights to accept/reject any/all quotations without assigning any reasons thereof.
8. Complete set of manuals for the operation of the equipment should be given. All mechanical and electrical schematics must be provided for main unit, sub systems and accessories.
9. Delivery should be as early as possible but not exceeding 10 weeks on receipt of PO.
10. Clearly specify the installation requirements – Such as space, power, frequency, environment( Temperature and Humidity)
11. If the item quoted are proprietary in nature, please enclose proprietary certificate from the principals stating “certificate that ----- is proprietary item of M/s ----- and no other manufacture make these items”.
12. If the bidder is Indian agent, the agency certificate should be enclosed.
13. Please produce compliance certificate for all the specification.
14. Please ensure that the Indian agent has been enlisted with the Department of Expenditure, evidence may please be attached.
15. All bank charges payable in India are to buyer's account and the bank charges in seller's country to seller's account.

*Indra Narayan Kar*

**(Dr. I. N. Kar)**

Electrical Engineering Department  
IIT Delhi,  
New Delhi-110016,  
India.

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