



INDIAN INSTITUTE OF TECHNOLOGY KANPUR
DEPARTMENT OF CIVIL ENGINEERING
STRUCTURAL ENGINEERING LABORATORY

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Enquiry no. CE/STR/2013-14/SEP/02

Non-Destructive Test (NDT) Equipment for Concrete

For our Structural Engineering Laboratory, we would like to purchase the following NDT equipment:

1. Resistivity meter
2. Rebar locator (preferably based on microwave based GPR system)

The general basic requirements of the above equipment are:

Resistivity meter

- Suitable to measure concrete resistivity as per IS/ASTM/AASHTO standards
- Measuring range: up to 1000 kΩ-cm.
- Accuracy: +/- 0.2 kΩ-cm to +/- 2.0 kΩ-cm for current > 200 μA to < 50 μA
- Variable probe spacing: 38 mm and 50mm
- Warning for high contact resistance and current flow indication
- Minimum three and Half Digit Display.
- USB interface for data transfer to PC.
- Memory to store at least 500 readings
- The instrument should have compliance of international standards for water/dust proof casing.

Rebar Locator

- Ability to measure rebar dia with ± 2 mm accuracy with ability to construct 2d & 3d images
- Suitable Antenna frequency for rebar location in concrete up to the depth of minimum 300 mm
- Data should be stored in memory (min. 2 GB) and transferable to the PC through USB for further analysis
- Control unit should have display with guide line laser
- Portable and easy to use on site (weight : < 5 kg) as well as in the laboratory
- The instrument should have compliance of international standards for water/dust proof casing.

In addition to above mentioned general basic requirements the proposed test system should be supplied with all necessary accessories for its use. Kindly send your offer for the above mentioned system along with the following:

1. Cost of the item including free installation and service with technical specifications in detail
2. Cost of additional optional accessories/add-on modules must be mentioned separately
3. The price should be quoted on ex-works (for Indian manufacturer) and FOB basis (for overseas manufacturer) along with maximum possible **educational discount**
4. The freight/shipping/documentation etc. costs are to be mentioned separately
5. Warranty & Delivery period and after sales service
6. Proprietary certificate, if applicable
7. Any other relevant details

An early reply latest by 10 September 2013 (02:30 P.M) will be highly appreciated. For any further information/clarifications in this regard, please write back to us at kunwar@iitk.ac.in or sud@iitk.ac.in.

Thanking you,

Sincerely

The last date of submission has been extended up to 16.9.2013

K. K. Bajpai