CSIR-CLRI is interested in procurement of “Safety Footwear Impact Test Machine”. In this regard, a pre-indent conference is arranged on 6th October 2017 (Friday) 10.30 A.M

Prospective bidders, Indian and Foreign or their authorized agent having experience in supply, commissioning & maintenance of the above equipment, are invited to make presentation of their products, followed by discussions on equipment suggested, client list and credentials, to finalize the specifications. The brief specification drawn is enclosed.
Prospective bidders are requested to bring documents to prove their technical capabilities, client list, financial capabilities, experience and credentials. Bidders interested in taking part in the Pre-Indent conference are requested to confirm their participation by sending e-mail latest by **04/10/2017 5.00 P.M. (Wednesday)**.

**भंडार एवं क्रय अधिकारी**

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Safety Footwear Impact Test Machine (Applicable test method EN ISO 20344/5/6 (2004), ASTM F2413, BS EN 12568 (5.2.2))

- A steel striker of mass 20 kg ± 0.2 kg.
- The Striker shall consist of a wedge at least 60 mm long.
- The face of which subtend an angle of 90° ± 18.
- The apex where the faces meet shall be rounded to a 3 mm ± 0.1 mm radius.
- The base of the apparatus shall have a mass of at least 600 kg and a metal block of dimensions at least 400 mm  x 400 mm  x 40 mm deep shall be bolted to it.
- Clamping device, consisting of a steel plate at least 19 mm thick and 150 mm  x 150 mm in area and of minimum hardness 60 HRC with provision for lightly clamping a toecap in a way which will not restrict any lateral expansion of the cap during the impact test.
- The rediused plated lies over the flange at the back edge of the cap and pushes the cap against the forked clamp with a load of 100 N to 200 N.
- Cylinders, of modelling clay of diameter (25 ± 2) mm of height (20 ± 2) mm for footwear up to and including size 40 (French) and of height (25 ± 2) mm for footwear above size 40.
- Dial gauge, with hemispherical foot of 3.0 mm ± 0.2 mm radius and a flat base, exerting a force of not greater than 250 mN.
- Provision for digital display of 200 J at the time of strike of impact.
- Safety guards.
- Accessories to meet ASTM, Canadian, Indian standards.
- Calibration kit for speed and impact energy joules.

Essential Condition

- The firm should take full responsibility for supply, installation and commissioning of the equipment. Installation and commissioning should be carried out in CSIR-CLRI and performance of the system demonstrated to the satisfaction of the users in CSIR-CLRI.
- Operation and maintenance training should be given by the firm to the laboratory staff for operation and maintenance of the equipment/instrument.
- Warranty should be Minimum One year from the date of installation.
- Maintenance and service support of the equipment during and after the warranty period of the firm should have competent and reliable service network in India for quick and necessary repair and maintenance of the equipment.
• One set of as per applicable updated test method (EN ISO 20344/5/6 (2004), ASTM F2413, BS EN 12568) and maintenance and Calibration manuals along with all necessary drawings should be supplied along with the equipment/instrument. The firms should enclose all the relevant catalogues and technical documents for all the components quoted including calibration certificates.

• The firms should be accredited by UKAS body.

• The tender without proper technical specifications, calibration certificates and updated test method and other necessary document as mentioned above will be rejected.

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