

**Ref: CL/PP/BID-01 (11-12)**

**Date: 23 Dec 2011**

**Subject: Supply of Nine Equipments for testing of Fire Extinguisher as per IS 15683-2006 with Amendment no 1**

Dear Sirs,

Technical & Commercial Bids are invited for the supply of **Nine Equipments for testing of Fire Extinguishers as per IS :15683-2006 for Central Laboratory**, in separate SEALED covers, which should reach the undersigned latest by **1500 h, on 25<sup>th</sup> January 2012**, at the following address:

**Scientist F & Head (Planning & Purchase)**  
BUREAU OF INDIAN STANDARDS  
Central Laboratory  
Plot No.20/9, Site-IV,  
Sahibabad Industrial Area, Sahibabad,  
Distt. Ghaziabad-201010 (U.P.)

2. The detailed specification of the above mentioned equipment(s)/item(s) are given in **Annex- I<sub>A</sub>, I<sub>B</sub>, I<sub>C</sub>, I<sub>D</sub>, I<sub>E</sub>, I<sub>F</sub>, I<sub>G</sub>, I<sub>H</sub> & I<sub>I</sub>**. **The bidders are free to quote for one or more equipments.**
3. Terms and conditions of supply are given in **Annex-II**
4. The technical Bids shall be opened in the **Conference Hall**, of the Central Laboratory, at the address mentioned above at **1700 h on 25<sup>th</sup> January 2012** and in the presence of such tenderers or their duly authorized representatives, who may like to attend.
5. Please note that the envelopes containing Technical & Commercial Bids and EMD are sealed properly i.e. either wax sealed or with adhesive cello tape on both ends. **Unsigned & Unstamped Bids in Unsealed/stapled envelopes** and bids **without EMD** shall be summarily rejected. **No exemption whatsoever for payment of EMD shall be accorded.** The envelope containing EMD shall be stapled separately with the envelope containing the commercial Bids. The value of EMD should not be disclosed in technical bid.
6. The specification and terms & conditions can also be downloaded from BIS Website – [www.bis.org.in](http://www.bis.org.in)

Thanking you,

Yours faithfully,

Encl.: **as above**

**Sc-F & Head (Planning & Purchase)**  
**Ph. 0120-4177109**  
**0120-2770416**

**Annex-I<sub>A</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code	: M/F/01
Name of the equipment	: Air Oven
Proposed for BIS Lab	: CL/Mech-Fire Fighting Eq. Section
Total Quantity Required	: One

**AIR OVEN**

- i) Temperature Range & Least Count: Range 0-150 deg. C & Least Count 0.5 deg. C
- ii) Digital thermal controller (calibrated by NABL accredited Lab).
- iii) Air circulation System.
- iv) Digital Timer Facility. As per Cl.9.8.2.2.1 of IS:15683 2006
- v) Internal Size: Ht x Width x Depth: 1200mm x 1200mm x 1200mm  
Stainless steel duly polished.
- vi) Outer Cover: CRC Sheet duly powder coated.
- vii) Reference Clause: (Cl. 7.1) , Cl. 7.3 & Cl. 9.8.2.2 (IS 15683:2006)

**Annex-I<sub>B</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code : M/F/02

Name of the equipment : FREEZER

Proposed for BIS Lab : CL/Mech-Fire Fighting Eq. Section

Total Quantity Required : One

**FREEZER**

- i) Temperature Range & Least Count: -40deg.C to ambient & L.C. 1 deg. C.
- ii) Fitted with digital thermal cut off (calibrated by NABL accredited Lab).
- iii) Digital Timer Facility. As per Cl.7.1 & 7.3 of IS:15683 2006
- iv) Internal Size: Ht x Width x Depth:1200mm x 1200mm x 1200mm  
Stainless steel duly polished.
- v) Outer Cover: CRC Sheet duly powder coated.
- vi) Suitable Voltage Stabilizer shall be provided.
- vii) Reference Clause Cl. 7.1 & Cl 7.3 of IS 15683:2006

**Annex-Ic**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code : M/F/03

Name of the equipment : IMPACT TESTING MACHINE

Proposed for BIS Lab : CL/Mech-Fire Fighting Eq. Section

Total Quantity Required : One

**IMPACT TESTING MACHINE**

- i) A SS cylindrical hammer of 75mm diameter and total mass of 4.0kg with flat faces.  
( Clause 7.5.1.2 of IS 15683-2006 )
- ii) Hammer should be mounted vertically in loose guides so that it can drop freely through a height of minimum 300 mm and maximum 1250mm with adjustment provided for height .
- iii) Hammer and the machine position should be such that a fire extinguisher (of size 250mm & height 1000mm) could be kept under it in upright position and lying on its side position.

**Annex-I<sub>D</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code	: M/F/04
Name of the equipment	: TAPPING TEST MACHINE
Proposed for BIS Lab	: CL/Mech-Fire Fighting Eq. Section
Total Quantity Required	: One

**TAPPING TEST MACHINE**

- i) As per Cl. 7.7.2 & Fig.1 of IS 15683:2006
- ii) Digital counter display be provided. It should Be Able to Record 500 drops as per Cl. 7.7.3 of IS 15683:2006
- iii) Should be able to hold fire extinguisher of maximum size of 250 mm diameter and height 1000 mm.

**Annex-I<sub>E</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code	: M/F/05
Name of the equipment	: CRUSHING TEST MACHINE
Proposed for BIS Lab	: CL/Mech-Fire Fighting Eq. Section
Total Quantity Required	: One

**CRUSHING TEST MACHINE**

- i) Maximum size of fire extinguisher (10kg capacity, outside diameter: 180mm & height 750 mm)
- ii) Crushing test machine as per Cl. 9.2.3 of IS 15683:2006 & Fig.4 of IS 15683:2006.

**Annex-IF**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code	: M/F/06
Name of the equipment	: ELELCTRICAL CONDUCTVITY TESTING MACHINE
Proposed for BIS Lab	: CL/Mech-Fire Fighting Eq. Section
Total Quantity Required	: One

**ELELCTRICAL CONDUCTVITY TESTING MACHINE**

- i) Should be able to test a fire extinguisher (10kg capacity, outside diameter: 180mm & height: 750 mm)
- ii) Electrical conductivity test machine shall as per details given in Cl. 8.6.3 of IS 15683:2006..

**Annex-I<sub>G</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code : M/F/07

Name of the equipment : ULTRAVIOLET LIGHT  
EXPOSURE MACHINE

Proposed for BIS Lab : CL/Mech-Fire Fighting Eq. Section

Total Quantity Required : One

**ULTRAVIOLET LIGHT EXPOSURE MACHINE**

- i) Equipment shall be able to meet requirement as per clause 9.8.3 of IS 15683:2006.



**Annex-I<sub>H</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code	: M/F/08
Name of the equipment	: VIBRATION TESTING MACHINE
Proposed for BIS Lab	: CL/Mech-Fire Fighting Eq. Section
Total Quantity Required	: One

**VIBRATION TESTING MACHINE**

- i) Machine should be able to meet the parameters as per Cl.7.5.2.5.2 and Cl.7.5.2.5.3 of IS 15683:2006.
- ii) Digital timer facility should be provided.
- iii) Machine should be able to hold the fire extinguisher (size of diameter 250 mm and height 1000 mm) in three rectilinear axes in the following order: horizontal, lateral and vertical.

**Annex-I<sub>I</sub>**

**BUREAU OF INDIAN STANDARDS  
(CENTRAL LABORATORY)**

**EQUIPMENT SPECIFICATION**

Equipment/Specification Code	: M/F/09
Name of the equipment	: PRESSURE CYCLING TEST.
Proposed for BIS Lab	: CL/Mech-Fire Fighting Eq. Section
Total Quantity Required	: One

**PRESSURE CYCLING TEST**

- i) As per Cl. 9.2.5 of IS 15683:2006 .
- ii) Digital Counter (Calibrated by NABL accredited lab). Shall be able to record 5000 cycles as per Cl.9.2.5
- iii) Pressure Gauge Should be able to record 3.5 MPa pressure as per Cl. 6.1 Range 0-5 MPa with Least Count 0.1 MPa.

## **ANNEX-II**

### **BUREAU OF INDIAN STANDARDS (CENTRAL LABORATORY)**

#### **TERMS & CONDITIONS**

1. The Bidders are requested to give detailed tender in the forms of two bids i.e.  
**Part - A Technical Bid.**  
**Part - B Financial Bid.**
2. **The Technical & Financial Bids should be sealed and sent separately in sealed envelopes & duly super-scribed (giving Equipment name, technical/financial bid, due date of opening & Ref. No. on the top of the envelope).** Such Bids shall remain valid for a period of 120 days from the date of opening.
3. Bidders may be required to arrange practical demonstration of equipment/model quoted by them before finalization of order.
4. The Technical Bid [Part A] should accompany complete specification, Manufacturer's name, address and following details :
  - a. Expected life span of equipment and accessories.
  - b. List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau,
  - c. List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied,
  - d. Near locations in India from where after sales services shall be provided along with the name of Servicing Agent,
  - e. The optional and any other essential items/accessories required for the maintenance of the equipment for the next three years.
  - f. Technical Literature of the equipment along with necessary clause wise photograph/drawings, if any
  - g. **Compliance statement vis-à-vis specification clauses, including statement of deviation, if any (Annex-III).**
  - h. **Delivery Period:** The delivery of the equipment is required to be made within 90 days of the date of order. If, it is not possible for you to affect delivery within the period, you are required to specify the date by which you can guarantee delivery of the stores.
  - i. **Warranty:** The equipment is to be guaranteed for trouble free performance for a **minimum period of two years after commissioning.** The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.

- j. The Bidders are required to furnish the Permanent Account Number (PAN)/TIN of the firm Allotted by the Income Tax Department.
5. Each tender document shall be accompanied with **EMD of 3% of total cost of the equipment (excluding taxes)**. The demand draft for the EMD amount shall be drawn in favour of BUREAU OF INDIAN STANDARDS payable at Sahibabad/Ghaziabad. The sealed envelope containing EMD should be super scribed **“EMD”** and **stapled separately with the envelope containing the commercial Bids. No disclosure of amount of EMD in Technical Bid should be done.**
6. Cost of the items should be mentioned clearly in the **Financial Bid [Part-B]** only. The following details need to be included :
- a. Price break-up of main equipment and accessories and consumables to be supplied by the party,
  - b. The rates quoted should separately indicate Basic Cost, Excise Duty, Sales Tax, Packing & Forwarding charges, Freight, Insurance, VAT etc. Rates quoted should specifically state Sales Tax, Excise Duty or any other taxes/charges. In absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same shall be entertained. **Form C/D shall not be provided by BIS. In case of foreign supplier BIS shall pay Custom Duty.**
  - c. Rebate on the quoted price, if additional equipment is procured for any other BIS Lab, and
  - d. The Annual Maintenance Contract charges for next three years after the expiry of warranty period.
  - e. CIF (Carriage Inward & Freight), Sahibabad value both by Airfreight and Ocean freight, where applicable.
7. BIS shall pay **90%** of the cost after satisfactory installation & commissioning and the Balance of **10% as contract performance security** would be paid after expiry of warranty period. **In case of foreign suppliers** 100% payment shall be made by an Irrevocable Letter of Credit established in favour of the supplier through the Canara Bank, DDU Marg, New Delhi, for the order value provided an unconditional Performance Bank Guarantee valid till 60 days after the warranty period from a Nationalized Bank for 10% of the order value within 15 days of placement of the order is given to us. The Agency Commission to the Indian Clearing Agent will not be paid by the Bureau. The firm has to arrange for it. BIS shall provide Custom Duty Exemption Certificate at the time of Custom Clearance as well as any applicable Custom Duty.
8. Place of Delivery: **Sc- F& Head (Mechanical),**  
BUREAU OF INDIAN STANDARDS,  
Central Laboratory, Plot No.20/9, Site-IV,  
Sahibabad Industrial Area, Sahibabad, Ghaziabad-201010

9. Quotations/bids qualified by indefinite expressions such as “Subject to immediate acceptance” etc. and incomplete quotations are liable to be summarily rejected.
10. In case of foreign quotation, the address of Principal / Manufacturer and their Banker’s details should be furnished. The supplier is required to have an import license for the equipment quoted where applicable as per GOI guidelines.
11. All goods shall be inspected by BIS preferably in the presence of supplier or his authorized representative, when the packages are opened in Labs prior to installation. The decision of BIS shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
12. INSTALLATION: Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to supply, install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay Penalty of one percent of the value of Purchase Order awarded per every seven days delay, subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.
13. The supply of spare parts is to be guaranteed at least for a period of 10 years after the supply of the equipment.
14. The Bureau reserves the right to accept or reject summarily and/or all tenders in whole or part without assigning any reason whatsoever.
15. The Date and Time of opening for Part B (Financial Bid) will be intimated only to technically acceptable/qualified tenderers at a later date.
16. In case of any dispute arising out of this agreement then DG BIS shall nominate any officer of the BIS a sole arbitrator to adjudicate upon the issue involved in the dispute and the provisions of the Arbitration Act shall be applicable.
17. All question, disputes or differences arising under, out of or in connection with this Bid document shall be subject to the exclusive jurisdiction of Delhi/Ghaziabad Court.

**Sc- F & Head (Planning & Purchase)**  
**Bureau of Indian Standards**  
**Central Laboratory**

### **Annex- III**

#### **DEVIATION STATEMENT FORM**

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

<b>SPECIFICATION CLAUSE</b>	<b>DEVIATION</b>	<b>REMARKS (INCLUDING JUSTIFICATION)</b>

**PLACE:**

**DATE:**

**SEAL & SIGNATURE OF BIDDER**

**NOTE: 1. Where there is no deviation; the statement should be returned duly signed an endorsement indicating “No Deviations”.**