

# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

## ADVANCE MECHANICAL TESTING FACILITY (AMTF)

E- mail: [amtf@iitb.ac.in](mailto:amtf@iitb.ac.in) Ph: 022-2576-4542

### User Registration process

#### Internal User:

Users within IIT Bombay can apply from <http://drona.ircc.iitb.ac.in>. The form should be completely filled up and all the sample details must be provided in the requisition form. Users need to be present at the time of test and analysis on the allotted appointment date/time. If a user wishes to change his/her time slot, an email should be sent immediately to [amtf@iitb.ac.in](mailto:amtf@iitb.ac.in) requesting change in appointment.

#### External User:

- **Academic Institutions:** Applicant can come in-person or send a letter from the Guide/HOD on the Institution's original letter head along with the registration form stating that the analysis is for research purpose, to qualify for academic concession.
- **National R & D Labs:** Applicant can come in-person or send a letter signed by an authorized signatory of the Institution on original letter head along with the registration form, stating that the analysis is for lab research purpose.
- **Industry & Non- Government Agencies:** Applicant can come in-person or send a letter signed by an authorized signatory of the Organization, along with the registration form.

The letter should be addressed to The Convener, AMTF, # G23, Department of Mechanical Engg, IIT Bombay, Powai, Mumbai- 400076.

You are requested to mention in your request letter that *"We agree to acknowledge the AMTF of IIT Bombay when the data from the AMTF lab are used in our papers/reports /thesis"*.

The information on such acknowledgements with appropriate reference should be communicated to AMTF lab vide email "[amtf@iitb.ac.in](mailto:amtf@iitb.ac.in)" Kindly send the complete publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc).

**TEST CHARGES AMTF LAB**  
**Mechanical Testing (GST extra)**

Test Name	IITB User (INR)	Non-IITB Academic (INR)	National R&D Lab. (INR)	Industries & Non Govt. Agencies (INR)
Tensile Test	200 *	400 *	800 *	1600 *
Compression	200 *	400 *	800 *	1600 *
Torsion	200 *	600 *	1200 *	1600 *
Axial Torsion	400 *	1200 *	2400 *	3200 *
Biaxial Tension	600 *	1800 *	3600 *	4800 *
Three Point Bend	400 *	1200 *	2400 *	3200 *
Four Point Bend	400 *	1200 *	2400 *	3200 *
KIc (Pre-Crack + Testing)	(600 +300) *	(1800 +900)*	(3600 +1800)*	(4800 +2400)*
JIc (Pre-Crack + Testing)	(600 +300) *	(1800 +900)*	(3600 +1800)*	(4800 +2400)*
FCGR (Pre-crack+ Testing)	(600 +600#)	(1800 +1800#)	(3600 +3600#)	(4800 +4800#)
Uniaxial Fatigue	500 #	1500 #	3000 #	4000 #
Three/Four Point Bend Fatigue	500 #	1500 #	3000 #	4000 #
Rotary Bending Fatigue	500 #	1500 #	3000 #	4000 #
Torsion Fatigue	500 #	1500 #	3000 #	4000 #
Tension-Torsion Fatigue	600 #	1800 #	3600 #	4800 #
Biaxial Fatigue	800 #	2400 #	4800 #	6400 #

**Accessories (Rates as per the respective tests)**

Accessories	IITB User (INR)	Non-IITB Academic (INR)	National R&D Lab. (INR)	Industries & Non Govt. Agencies (INR)
Extensometer	100	300	600	800
DIC	300	900	1800	2400
Furnace	500	1500	3000	4000
Clip On Gauge	100	300	600	800
Cooling Chamber(Liq. N <sub>2</sub> Charges Extra)	800	2400	4800	6400
Video Extensometer	200	600	1200	1600

\* Per sample      # Per hour

N.B : 1. GST-18% (as of now) for external users only.

2. Static test charges will be extra if it takes more than half an hour.

3. Any analysis (DIC or others) charges will be extra.

4. For other customised experiments will be quoted separately.

## **Dynamic Mechanical Analyser (DMA) Charges :**

**DMA Charges for computing loss modulus, storage modulus and loss tangent at each frequency.**

### **For IITB USER**

1 Test at RT – INR 500

1 Test at HT – INR 750

1 Test at LT – INR 1000

### **For Non-IITB academic institutions**

1 Test at RT – INR 1000

1 Test at HT – INR 1500

1 Test at LT – INR 2000

### **For National Labs**

1 Test at RT – INR 2000

1 Test at HT – INR 3000

1 Test at LT – INR 4000

### **For Industry**

1 Test at RT – INR 4000

1 Test at HT – INR 6000

1 Test at LT – INR 8000

## Disclaimer

1. Other customized experiments, will be quoted separately.
2. The rates may be revised from time to time, based on facility usage and maintenance, and as approved by the Facility Management Committee.

## Payment terms:

1. GST Charges are extra as per prevailing norms for external users.
2. Payment should be made in advance by Demand Draft (DD) drawn in favour of "The Registrar, IIT Bombay, P and C Account". The same should be sent (or deliver in person) to:

The Convener, AMTF, # G23, Department of Mechanical Engg, IIT Bombay, Powai, Mumbai-400076, along with the Request Letter and Registration Form.

3. For Online payment, details are given below:

### Details of Account holder:

Name of account holder	<b>Registrar IIT Bombay , Project &amp; Consultancy Account</b>
Contact address	Adishankarachary Marg. Powai , Mumbai 400076
Contact Number	91-22-25767020 / 7032 / 9769257032
Fax Number	91-22-25764034
E-mail Address	<a href="mailto:registrar@iitb.ac.in">registrar@iitb.ac.in</a>

### Bank Details:

Bank name	<b>State Bank of India</b>
Branch name	IIT Powai
Branch address	Adishankaracharya Marg, Powai , Mumbai 400076
Contact Number	91-22-25721103/ 2900 / 5305
E-mail address	<a href="mailto:sbi.01109@sbi.co.in">sbi.01109@sbi.co.in</a>
<b>Account Number</b>	<b>10725729173</b>
ECS / MICR Code	400002034
Account type	Current
SWIFT / BIC / IBAN	SBININBB519
NEFT / RTGS / IFSC	SBIN0001109

Branch Code	1109
BSR Code	0001109

For online payment, give reference as “AMTF testing”

**Please send mail to [amtf@iitb.ac.in](mailto:amtf@iitb.ac.in) after the payment with the details.**

**Appointment:**

The users will be informed about their date and time-slot by an email. If the day and time-slot is not suitable for you, an email request should be sent immediately for an alternate slot.

**Sample Submission:**

Samples are to be brought along on the date of your appointment for the testing. The user should inform about the geometry of the sample in advance while submitting the requisition form.

**Results:**

Bring a new CD/DVD for data collection (No USBs/Online data transfer allowed) after the completion of the test.

**GENERAL INSTRUCTIONS TO THE USERS**

1. The experimental data provided is only for research/development purposes. These data can't be used as certificate in legal disputes.
2. The users should know the process / test parameters of the sample before submitting it for testing.

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