

TECHNICAL BID PROFORMA

Item Name: “Dynamic Mechanical Analyzer”

1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			

2.0 Technical Compliance:

S.No	Technical Specification		Complied/Not Complied	Reference Page No.
1	Temperature Range	-50°C to 350°C		
2	Min heating rate	0.1 °C/ min or better		
3	Max heating rate	20 °C/ min or better		
4	Purge gas	Air, nitrogen, argon, helium		
5	Maximum Force	10 N		
6	Minimum Force	0.0001 N		
7	Force Resolution	0.00001 N		
8	Frequency Range	0.001 to 200 Hz (0.001, 0.01,0.1, 0.2, 0.3 , 0.5,1, 2,3, 5, 10, 20,30,50, 100,200 Hz equivalent or better)		
9	Dynamic Deformation Range	±0.005 to 10,000 µm		
10	Strain Resolution	better than 100 nm		
11	Modulus Range	10 ³ to 10 ¹² Pa or better		
12	Modulus Precision	± 1%		
13	Tan δ Sensitivity	0.0001		
14	Tan δ Resolution	0.00001		
15	Time-Temperature Superposition	Required		
Modes and capabilities				
16	Oscillation	Frequency Sweep, Strain Sweep, Stress Sweep, Temperature Sweep, Temperature Ramp, Time Sweep, Temperature Sweep (Multi-frequency)/ TTS, Temperature Ramp (Multi-frequency), Fatigue Test		
17	Stress Control	Creep, Creep-Recovery, Creep TTS, IsoStress		
18	Strain Control	Stress Relaxation, Stress Relaxation TTS, IsoStrain		

Clamps			
19	tensile , dual single cantilever, compression, 3 point bend, powder Accessories – Cooling Unit Associated Software and hardware		

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**