

Technical Specification for Gelation Timer

Sl. No.	Description	BHEL Specification	Vendor Specification
1	Type of instrument	Rotating springless viscometer with Touch screen for display and control	
2	Operation Mode	Both standalone and PC control mode	
3	Display	Large colour touch screen display and control panel Shall Display the following: Viscosity (cP / Poises or mPa.s / Pa.s Speed Shear rate Torque % Shear rate Time Temperature	
4	Rotational Speed	Variable speed in the range of 0 to 1500 rpm	
5	Torque range	0 to 30mNm	
6	Temperature range	Room temperature to 300 Degree C	
7	Viscosity range	1 cP to 780 McP	
8	Accuracy	+ / - 1 % of the full scale	
9	Repeatability	+ / - 0.2 %	
10	Input Supply	230 V, AC, 50 Hz	
11	Temperature control	Temperature control from standalone as well through software using PC shall be possible.	
12	Temperature control of sample	Provision for temperature control of sample to be provided. Temperature ramp mode should be available	
13	Data recording & transfer	Provision of data recording and transfer by USB to PC	
14	PC Connection	RS232 Port and USB	
15	Printer connection	USB Host Port - Compatible PCL/5	
16	Software	Required software with permanent licence (if required) to be provided	
17	Calibration	Calibration certificate of the equipment to be supplied along with the equipment	
18	Manufacturer's test certificate	Manufacturers test certificated to be provided along with the equipment.	
19	Operational manual	Operational manual to be provided along with the equipment	
20	Warranty	Vendor shall provide a warranty of 12 months from the date of successful completion of installation, demonstration and training at BHEL R & D,	
21	Make & Model	Make and Model of the offered item shall be clearly mentioned in the offer. The data sheet / Technical specification of the offered make and model shall be attached along with the offer.	

22	Installation, demonstration and training	<p>The installation of the item at BHEL R & D is in the scope of the supplier. Demonstration of the equipment as well as training regarding operation, maintenance, fault diagnosis, troubleshooting and calculation if any shall be provided to BHEL representatives as per BHEL specification requirements.</p> <p>The installation , demonstration and training has to be completed within 10 working days after site readiness communication to the vendor.</p>	
23	Delivery Time	<p>Delivery time for delivery of item at BHEL R & D from the date of PO shall be provided by the vendor.</p> <p>The delivery time shall include supply, instalation and demostration of the item and shall also include training of BHEL representatives at BHEL R & D.</p>	


