



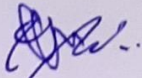
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Technical Specification for supply of Gassing tendency apparatus.

Sl. No.	Parameters	BHEL Requirement	Vendor Specification
01	Standards	The gassing tendency apparatus shall comply to ASTM D-2300, BS:5797-1986, IEC:60628 standards	
02	Air/Moisture filtering system	The air filtering system shall consists of inlet, pressure gauge, pressure regulator, moisture absorber/filter and gas flow meter with needle valve.	
03	Oil Bath	<p>The oil bath shall be made up of suitable stainless steel, with proper marking for oil level (maximum & minimum levels).</p> <p>The oil bath chamber shall have visibility window with proper illumination.</p> <p>The oil bath shall be provided with suitable stirrer arrangement to maintain the uniformity of oil bath.</p> <p>The temperature of the oil bath shall reach up to 100 Degree C at a display accuracy of +/- 5 Degree C.</p>	
04	Gassing Cell assembly	<p>The gassing cell assembly shall consist of Gassing Cell, Glass Burette & High Voltage electrode.</p> <p>Glass cell shall be made as per ASTM/IEC/BS standard.</p> <p>Suitable safety shield & interlock to be provided to protect the user from High voltage effects.</p>	
05	High Voltage Transformer	<p>Capacity: 15 kV / 10 mA AC.</p> <p>Output Voltage: 0 to 15 kV AC continuously variable with one end at earth potential.</p> <p>Rating: 300 minutes ON and 30 Minutes OFF</p> <p>Metering: Digital HV meter</p> <p>The High Voltage unit shall be properly housed in suitable casing.</p> <p>Suitable safety shield and interlocks to be provided to protect the user from high voltage effects.</p> <p>Short circuit fault protection to be provided for the unit.</p>	
06	Power Supply	The set up shall be suitable for input power supply of 230 V +/- 10 % Volt AC, 50 Hz.	

07	Protection	Suitable protection and interlocks shall be included for short circuit faults, high voltage effects etc.	
08	Spare (mandatory)	The offer shall include the following spares: Gassing cell – 01 No Burette – 01 No High voltage electrode – 01 No	
09	Installation, demonstration and training	Vendor shall install the item at suitable location in BHEL R & D. After installation, vendor shall demonstrate the operation of the setup as per relevant standards and BHEL requirement. The supplier shall also train BHEL representatives for proper operation, fault diagnosis and troubleshooting of the equipment.	
10	Drawing	Detailed Block Diagram with clear indication/labelling and traceability of the set up to be provided along with the equipment. Detailed wiring diagram with clear indication and labelling for proper circuit traceability to be provided along with the equipment.	
11	Operation and maintenance Manual	Detailed operation and maintenance manual with fault diagnosis and troubleshooting procedure to be provided along with the equipment.	
12	Calibration	Calibration certificate of the equipment from NABL accredited lab to be provided along with the equipment.	
13	Warranty	Vendor shall provide a warranty of 12 months from the date of successful completion of installation, demonstration and training at BHEL R & D.	
14	Delivery Time	Delivery time from the date of PO to be provided along with the offer. Delivery time shall include the time required for completion of all the activities like supply of the equipment, installation, demonstration and training at BHEL R & D.	



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