

## Compliance Matrix to be filled up by vendor

Sr. No.	Specification	Specification-Value	Specification-value offered by Vendor	Compliance by Vendor (in Yes/No format only)
<b>Technical Specifications: Foil Heaters with integrated Temperature Sensors</b>				
1	Type	Foil Heaters with integrated Temperature Sensors. (Please refer annexure-1 for more details).		
2	Heater Configuration	Main + Redundant (Redundant Heater substrate mounted on the top of Main heater substrate - double layered heater. Ref annexure-1)		
3	Heater Dimensions (Overall Area)	Within 35 mm x 17 mm (Temperature Sensors to be accommodated in this area as well. Ref annexure-1)		
4	Heater Power	Min 3.5 Watts		
5	Heater Power Density	Min 7 Watts/sq inch		
6	Operating Voltage for Heater	5 V - 24 V		
7	Temperature Sensor Configuration	Main + Redundant (Temperature sensor to be embedded in the bottom layer of the Foil Heater. Ref annexure-1)		
8	Temperature Sensor Type	Bead Thermistor		
9	Temperature Sensor Measurement Range	10 deg C to 150 deg C		
10	Temperature Sensor Accuracy	Within +/- 1 deg C		
11	Temperature sensor resistance	1 k Ohm to 20 k Ohm		
12	Survival Temperature Range (for both Heaters and Temperature Sensors)	-20 deg C to 200 deg C		
13	Lead wires	Vacuum compatible lead wires		
14	Lead Wires' length	Min 0.5 m		
15	Vacuum Compatibility	Required, min 10 <sup>-5</sup> torr		

## General Specifications

1	Supply	Vendor shall ensure safe delivery and demonstration of the product at SAC.		
2	Warranty	The system shall have warranty of 1 years from the date of delivery. The warranty shall cover material/performance defects.		
3	Documents at the time of submitting bid	Vendor shall provide Items Specification Datasheet of the hardware at he time of submitting the bid. The item specification document shall clearly show the foil heater and sensor layout for both main and redundant. The item specification document shall also include the specifications which meet the criterias mentioned in technical specifications.		
4	Documents at the time of delivery	Vendor shall supply item specification document and certificate of compliance at the time of delivery.		
5	Confirmation of Compliance Matrix	Vendor is required to submit confirmation of compliance matrix at the time of submitting quote.		
6	Delivery Time	Products to be delivered within 36 weeks from release of PO		