Annexure-1

<u>Specifications of Chromatic Confocal Sensors and Controller for Thickness Measurement</u>

Description	Specification
Sensor One	
Measuring Range (n=1.5)	Greater than or equal to 90 μm
Start of Measuring Range / Working Distance	Greater than or equal to 40 mm
Minimum Measurable Thickness (n=1.5)	Less than or equal to 3 μm
Maximum Sample Slope	Greater than or equal to 5 degrees
Spot size	Less than or equal to 50 μm
Sensor Two	
Measuring Range (n=1.5)	Greater than or equal to 300 μm
Start of Measuring Range / Working Distance	Greater than or equal to 10 mm
Minimum Measurable Thickness (n=1.5)	Less than or equal to 20 μm
Maximum Sample Slope	Greater than or equal to 10 degrees
Spot size	Less than or equal to 15 μm
Controller	
Modes of Operation	Chromatic Confocal Sensing and/or Confocal Spectral Interferometry
Acquisition Rate	Greater than or equal to 2000 Hz
Number of Channels	Two
Multi-layer Thickness Measurement	Required (Three or more layers)
Synchronization (IN and OUT)	Required
Software Requirements	Should be capable of measuring and reporting single/multi-layer thicknesses
Accessories	All the necessary accessories, including two sets of cables of length at least 3 m each.

Scope of supply	Complete chromatic confocal sensing/measurement system including two sensors, one controller, data acquisition software, and necessary accessories including cables
Other Requirements	
Prior business experience	Supplier should have supplied similar equipment to reputed academic institutions, research laboratories and/or industries. In support of this supplier must submit a list of customers using the sensor.
Packaging charges	Should be included in the quotation
Transportation charges	Should be included in the quotation
Delivery	10-12 weeks
Warranty	At least 1 year