

### Technical Specification

#### 1) XENON ARC WEATHEROMETER (WATER COOLED) - 1 NO.

-	MAKE & MODEL	
1	Light source	Xenon Arc Lamp
2	Light Filter	Optical filter to meet the below mentioned test standard
3	Exposed Area ( min)	3000 cm <sup>2</sup>
4	Life of the lamp	Min. 1500 hrs.
5	Radiometer	To measure the radiant flux for self - calibration to be provided.
6	Control of Irradiation	Automatic control of irradiation to set point at 340 nm, 300-400 nm and 420 nm.
7	Irradiation range	at 300 – 400 nm: 20-75 W/m <sup>2</sup>
		at 340 nm: 0.25-0.80 W/m <sup>2</sup>
		at 420 nm: 0.45-1.5 W/m <sup>2</sup>
8	Humidity range	Light cycle: 20 – 90%, Dark: 100% with humidity accuracy +/- 5 %
9	Black Panel Temperature range	40 – 100°C with variation not exceeding +/- 2 deg C
10	Spray	Front and Back
11	Specimen Holder	Sufficient number of holders to be provided for effective exposure
12	Time Setting	Specified time setting option for light and dark cycle
13	Specimen rack	Rotating type 360° continuous / FLAT BAD
14	Test Standards	SAE-J1885, SAE-J2527, SAEJ 2412, ASTM G155, ASTM G 151 ISO 4892-2, ASTM D 4459, ASTM D 5071 , ASTM D 4355 , ASTM D 2565 , ASTM D 6622, IS 2454 , IS 15827
15	Accessories	Water purifying system
16	Computer with software	Data acquisition software package with computer (PIV) along with the printer (laser jet colour). The supplier shall Upgrade software free of cost within 36 days if any upgraded version becomes available.
17	Installation requirement	Suitable stabiliser, transformer and UPS
18	WARRANTY	THREE YEAR for whole system
19	Calibration	supplier must be calibrate the equipment on site to irradiance, temperature and humidity over entire working range. The supplier must provide calibration certificate as per ISO 17025 at the time of installation and next two year without any charges.