

Technical Specification for Di-electric strength meter (Voltage Breakdown Tester)

SL No.	SPECIFICATIONS	REQUIREMENT	PARAMETERS
1	Equipment	Electric Voltage Breakdown Tester	Essential
2	Application	Equipment will be used to check quality of Aluminium anodizing layer.	Essential
3	Measuring Mode	V/kV, mA, Time	Essential
4	Measurement Range & unit	Voltage: 0 to 1KV Leakage Current:0-20mA	Essential
5	Resolution	10 V & 1 mA or better	Essential
6	Accuracy	V: 2%, mA: 2% or better	Essential
7	Repeatability & Reproducibility	The instrument should be user friendly and capable to repeat and reproduce the measurement readings	Essential
8	Timer	Programmable timer range 0 to 999 seconds.	Essential
9	Display	All meter should be digital, Alarm to indicate passing the required voltage/current	Essential
10	Power requirement	230V AC, 50Hz	Essential
		Test voltage range to be settable bt knob.	Essential
		Trip current settable by press to set switch and potentiometer on mA meter	Essential
11	Technical features	The Instrument to be capable to check continuity of Aluminium anodizing layer at required voltage	Essential
12	Standard accessories	Standard accessories to supplied along with the equipment.	Essential
13	Optional accessories	The vendor should indicate the optional accessories required for the equipment with cost separately. However, basic machine with standard accessories will be considered for cost evaluation	Desirable
14	Safety	The equipment must be provided with all safety features necessary to protect the machine, control and the operator while in operation from possible damage injury	Essential
		Following documents to be submitted during delivery time	Essential
		A) Calibration Certificate traceable to national/international standard	Essential
		B) Certificate of Conformity	Desirable
		C) Operator's manual and Metainance manual	Essential
		D) Warranty certificate (Minimum one year Warranty from date of acceptance)	Essential
16	Installation & commissioning	The equipment should be supplied, installed and commissioned by the vendor at HAL site. Demonstration on Actual parts as per technical spec & prove out the equipment at HAL site	Essential
17	Acceptance of equipment	After successfully demonstration and prove out the equipment on Actual parts as per technical specification at HAL site.	Essential
18	Training	Operational training should be provided to HAL personnel.	Essential
19	Warranty	Warranty certificate to be provided by vendor(Minimum one year Warranty from date of acceptance)	Essential
20	After Sales Service	A) After sales service by factory trained Engineers with in 48 hours of communication, to be provided. The supplier should be ready to take annual maintenance contract after warranty period and to be Quoted Separately . C) AMC for calibration of Machine and standards for min two years. AMC should include calibration of machine and supply of standard calibrated buffer solution for minimum two years. Entering into AMC after warranty period is an option to HAL, if desires.	Desirable