

Technical Specification for Sweep Frequency Response Analyser(SFRA) (TE-03)

S.No	Parameter	Bidders specification / confirmation	Non-Compliance if any	Reference page number/ section number of catalogue/Remarks
1	Compliant with the IEC 60076-18 and IEEE C57.149 standards			
2	User-friendly acquisition, storage, analysis & expert guidelines software			
3	Software with integrated database			
4	Shall cover the fully dynamic range and maintain the same energy level at each frequency (at least 145db for the frequency 20Hz up to 2mhz)			
5	High signal-to-noise ratio across the entire frequency range (noise floor <- 135db)			
6	Output voltage should be adjustable from 0.1Vpp up to 10 Vpp at 50Ω. The inputs and outputs are short-circuit-protected			
7	FREQUENCY RANGE: 1 Hz – 30 mhz			
8	Dynamic range: >150db			
9	DATA COLLECTION: Fully automated			
	Frequency range: 10 Hz-20 mhz, Auto scaling			
	Number of points: at least 801, logarithmically spaced with capabilities of customization			
10	<p>Software:</p> <ul style="list-style-type: none"> • Shall be user-friendly dedicated software • The data manager shall allow the selection of data based on equipment tested, location, test equipment used, test setup, Organization, Rating, tap position, etc. • Identification & comparison of any differences or areas of dissimilarity between two SFRA traces, • Identification & analysis between the references curve & variations in the measured data • Shall provide a plot of the differences and statistical analysis of the results. <p>The software shall be able to remove noise of measured traced (interpolation and average filtering)</p> <ul style="list-style-type: none"> • The software shall generate automatically reports (e.g. excel reports and pdf) 			
11	POWER INPUT: 90 – 260 Volts AC, 47 – 55 Hz			
12	<p>ENVIROMENTAL:</p> <ul style="list-style-type: none"> • TEMPERATURE: Storage: -5°C to +55°C Operation: -35°C – +55°C • HUMIDITY: 20- 95 % RH • ENVIRONMENTAL: Shall have Dust proof enclosure 			