BHARAT HEAVY ELECTRICALS LIMITED
ELECTROPORCELAINS DIVISION
BANGALORE 560 012

Purchase Specification
AE System

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Sl No	Specification	Requirement
1.	Description	Acoustic Emission CRIMP Package : A complete 1-chennel AE System (Threshold Independent, Optimized for insulator end fitting crimping)
2.	Purpose	On line inspection of insulator during crimping by using Acoustic Emission Technique
3.	Scope of Supply	Two years trouble free maintenance spares to be supplied along with the main equipment.
4.	Erectioning & commissioning	AE system has to be fixed in the crimping machine available with BHEL suitably and parameters should be adjusted accordingly by supplier.
5.	Operations Training / Demonstration	Necessary operating and maintenance training/demonstration should be given.
6.	Any other information	Supplier can furnish any other additional information, additional features of the instrument will considering the overall requirements
7.	Bill of material	

Component	Pcs	Description of the part
Data Acquisition system	1	1-Chennel A E System (Threshold independent), Optimized for insulator end fitting Crimping, comprises • Data acquisition unit inclusive USB Cable (2 meter) • Control and analysis software
Hardware	1	Acoustic Signal Conditioner, frequency range 240-710 KHz, ASL low pass filter 1 pole, 86 Hz
Cables	1	Dedicated Cable Data Acquisition system hardware to pressure transducer, length 1.5m, 15-pole Sub D connector (male) on data acquisition system side free wires on transducer side e.g 4-20 MA, max 5V
Sensor cable	1	Compatible Coble sensor to the system, cable length 1.2m, with compatible sensor
Sensor	1	AE Sensor, wide band 100-900khz, nominal dia 20.5 mm
Data	1	Sample data files
Sensor fixing		Suitable couplant to fix the sensor
Manual	1	User Manual consisting operation , maintenance , principal, CD consicting software
Computer	1	800MHz, CPU, 3GB RAM, 1TB Free Hard Disc Space compatibles to the system.

YOGESH SHARMA Y RAVI RAVI CHANDRAN S