

## Annexure 'A'

Indent No: C/6180/2014/0887

Scope of Supply: Bench top LCR meter, Qty: 1 Set

Sr. no.	Description	Qty	Acceptance (YES/NO)	Deviation	Remarks (Vender to provide details and comply)
1.0	Make of Bench Top LCR meter	1 No.			
1.1	Model of Bench top LCR meter				
2.0	Technical specifications :				
2.01	Frequency Range: 40 Hz or less to 100 KHz or more				
2.02	Frequency Steps: 10 Hz or less				
2.03	Parameters to be measured: Impedance (Z), Admittance (Y), Phase angle, Capacitance Series, Capacitance Parallel, Inductance Series, Inductance Parallel, Resistance Series, Resistance Parallel, Resistance DC, Quality Factor (Q), Dissipation Factor (D)				
2.04	Measurement Range: Capacitance: 1pF or Less to 0.1F or more Inductance: 1 uH or less To 100H or more Resistance: 1mOhm or less to 1GOhm or more				
2.05	Measurement Accuracy: +/- 0.1 % or better				
2.06	Measurement time: 20ms or less				
2.07	Display : Backlit LCD display of size 3 inch or more				
2.08	Internal DC bias: 2V or better				
2.09	Test Signal voltage: 0-2V rms or more				
2.18	Operating Temperature=0 °C to +50 °C				
2.19	Language= English				
2.20	Power Supply =100-240V, 50/60 Hz ±10%				
3.0	Warranty= min 1 years <i>from date of installation</i>				
4.0	Accessories <i>Comprehensive</i>				
4.1	SMD tweezers for measuring SMD components	2 no.			
4.2	Crocodile / standard 4 terminal clips for measuring other components	2 set			
4.3	Power cord of length 3m	1 no.			
5.0	Documentation				

(A) *22/9/14*

*Rajeev Kumar*  
22/9/14

*William*  
23.09.2014

*William*  
11.10.2014

5.1	Hard copy of Operation and maintenance guide	1 no.			
6.0	<b>Acceptance Criteria</b>				
6.1	Bench top LCR meter will be finally accepted after successful demonstration and user training on all of its features for one day at BHEL Haridwar.				

Rajeev Kumar  
22/9/14  
(Rajeev Kumar  
Engg, EVER-CMC)

(R)  
22/9/14  
(B.S. GARG)

William  
23.09.2014  
(W. J. S. Parity)  
Sr. Mgr (W. J. S. Parity)

Annexure-CPre-Qualifying Requirement (PQR)

Indent No: C/6180/2014/0887/T

Offers from vendors fulfilling following conditions will be further processed

1. Equipment of internationally reputed makes Agilent /Tektronix / HP /Yokogawa / Hioki / Fluke/ Wayne Kerr is acceptable only.
2. Vender must submit the document that OEM of the equipment will provide the services during warranty period.
3. Offers can be submitted by any of the following
  - i) OEM of the Equipment.
  - ii) Authorized supplier/ distributor/retailer/ stockiest/ channel partner of the OEM.

(A) ~~22/9/14~~  
(B.S. GARG)

Rajeev Kumar  
22/9/14  
(Rajeev Kumar  
Engg - HEC/CNL)

William  
23.09.2014  
(W. J. S. Parity)  
Sr. Mgr (we & pg)