Indian Institute of Technology, Delhi
Centre for Energy Studies

August 06, 2012

NOTICE INVITING QUOTATION

Please submit duly signed technical and commercial bids separately in sealed envelopes for a **13.56 MHz RF Generator**. Your quotations should reach Dr. Ramesh Narayanan, Centre for Energy Studies, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi – 110016 latest by August 23, 2012 by 5:00 p.m. (IST) by post/courier.

The minimum technical specifications desired for the **13.56 M Hz RF Generator** are as follows:

1. RF Generator (Qty: 1 [One])

Output frequency	:	13.56 MHz
Frequency stability	:	0.005% of output frequency
Maximum output power	:	1000W into 50 Ω load
Minimum output power	:	10W into 50 Ω load
Load impedance	:	50 Ω
RF connector	:	N type female
Regulation	:	0.1% of full power
Harmonics	:	-50dBc at full power
Spurious Content	:	-60dBc max at full power
Pulsed mode	:	preferable
Pulse repetition frequency and duty cycle	:	frequency – 2 to 20 k Hz, duty cycle 5 to 90%
Cooling	:	air-cooled
Line voltage	:	single phase, 230 V, 50 Hz
Display	:	display forward and reflected power, mode etc.
Interlocks and limits	:	for reflected power, over temperature, current limit, DC overload, rf power limit etc.
Interface	:	RS232

2. Matching Network (Qty: 1 [One])
   o A compatible automatic matching network suitable for the RF generator.
   o A wide range of capacitive and inductive impedances for use in plasma generation.

3. Interconnecting Cables :
   - Between generator and matching network
   - Cable from matching network to load
   - Suitable rf connectors, power cables, RS-232 cables, etc.

TERMS AND CONDITIONS
   - Kindly give your quote preferably on FOB basis.
   - Quotation should be valid for at least 2 months from the date of issue
   - Applicable taxes should be explicitly mentioned.
   - **Comprehensive warranty** for three years or more shall be given preference.
   - Specify other terms & conditions such as payments, delivery etc.
   - Institute reserves the right to reject any quotations without assigning any reason thereof.