We are interested in procuring up to 4 Nos. of GNU SDR Systems. The specifications for these are listed below.

**Specifications for a single GNU SDR system**

**Qty 4**

**Motherboard:** Xilinx Spartan-3A-DSP3400 FPGA or equivalent/two 100 MS/s 14-bit analog to digital converters/two 400 MS/s 16-bit digital to analog converters/digital downconverters with programmable decimation rates/digital upconverters with programmable interpolation rates/Gigabit Ethernet interface/2 Gbps high-speed serial interface/1 megabyte of SRAM/Capable of processing signals up to 100 MHz wide/Capable of streaming signals up to 50 MHz wide/Support complex radio controls such as RSSI and AGC/Fully coherent multi-channel systems (MIMO capable)/TCXO Frequency Reference/Optional internal GPS locked reference oscillator/2 SMA-Bulkhead Cables/1 USB-ADP Adapter Cable/Power Supply

**Radio Board:** Transceiver with range of 50 MHz to 2.2 GHz max/transmit power of 30 to 100 mW/Dual synthesizers for independent TX and RX frequencies/30 MHz TX/RX bandwidth/less than 200us PLL lock time/16 digital I/O lines/adjustable transmit power

**Antenna:** 400 MHz to 1 GHz Log Periodic PCB directional antenna, 5-6dBi Gain.

**Terms and Conditions**

(i) Bids should be properly sealed. Technical and Commercial bids must be sealed in separate sealed envelopes packed in one big sealed envelop.

(ii) For Foreign Currency bids, Bids must be made on FOB basis.

(iii) Complete bill of material to be attached with Technical Bid.

(iv) Technical Compliance chart should be strictly attached with Bid.

(v) Validity of quotation should be minimum 90 days from the date of bidding.

(vi) Authorisation from the OEM in case of bids by Authorised resellers must be attached.

(vii) If the item quoted is proprietary, then proprietary certificate should be furnished with technical bid directly from the Manufacturer.
(viii) Sealed quotations with technical and financial bids in separate envelopes must reach the office of HOD, Deptt. of CSE, IIT Delhi positively by 13\textsuperscript{th} March, 2012 by 5.00 PM

(ix) Warranty should be mentioned clearly.

(x) Payment terms should be clearly mentioned in the bid.

(xi) Quotations not sent in separate covers for technical and commercial bids are bound to be rejected.

(xii) IIT Delhi Reserves the right to accept or reject any quotations without assigning any reasons thereof.

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