## Extension of tender period from 20th Aug.2016 to 1st Sept.2016

Tender nos: SB/PHY/C/02082016 (Closing date for receiving tenders 20thAug.2016)

## Tender Enquiry for high quality hall sensors.

Technical and financial quotes for Hall sensors is invited from suppliers. <u>The technical and financial bids</u> have to be supplied in two separate sealed envelopes.

## The envelop labelled "Technical Bid": (should not contain any financial information)

The envelope should contain only technical documents relating to the item being ordered. Specifically, it should contain information on the following.

1. Information on a company brochure that they can supply high quality hall sensors.

The following are the specifications the Hall sensors desired

The active area of the hall sensors  $^{\sim}$  0.01 - 0.02 mm² They should possess high magnetic field sensitivity High linearity Magnetic field range 0 - 5 T Temperature range 1.5 K to 300 K Excitation current range  $^{\sim}$  10 - 30 mA Sensitivity > 20 mV/T Linearity error at low T and high B < 1.5% Residual voltage < 200  $\mu$ V Onset of quantum hall oscillations at 4.2 K > 1.5 T Amplitude of oscillations at low T and highest H < 1%

Input resistance <  $30\Omega$ Mean temp. coefficient of sensitivity at temperature range 4.2 - 77 K < 5 x  $10^{-5}$  K<sup>-1</sup>

Thickness of sensor needs to be in the range of 1 mm, length and breadth ~ 5 mm x 5 mm.

Also a DAQ read out card is needed for sensing and measuring the hall voltage from the sensors. The card should have exciting a dc current in the sensors and measuring the hall voltage. Necessary softwares, drivers and DLL files needs to be provided for suitable interfacing with computer and readout of the data using windows (windows 8 or higher) based software's, compatibility with labview is

desirable. The necessary connection cables should also be included.

2. A suitable certifications needs to be provided by the company indicating all the above specifications are met by the company for the product they are offering.

- 3. The company has to be reputed firm and should provide a list of customers (international and national). Companies with long standing experience and high profile in the market for proven ability for providing high class <u>research grade Hall sensors</u> will be considered.
- 4. Detailed document of the product being offered must be included

## The envelop labelled "Financial Bid": (must contain only financial information)

- 1. Should contain best possible financial quote for the item. The company should consider offering attractive price discounts.
- 2. We will be ordering 15 to 20 hall sensors with the specifications indicated in the technical bid. All price discounts should be clearly mentioned.
- 3. Payment terms and conditions.
- 4. Proprietary certificate from the company principle regarding the product, if any.
- 5. Detailed input from the Principals regarding the local agency commission to local agents if applicable.
- 6. Detailed documentation about after sales support.

Seal the two envelopes separately. However these two sealed envelopes you may pack into one single envelope (on the envelop do mark "Technical and Financial bids packed in separate envelops). Please ensure your technical and Financial bids reach latest by 20th August 2016 at the address below:

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