

Dr. Pradeepta Kumar Sahoo, Principal Investigator

(SERB Extra Mural Research Project on "Tribological Analysis of a Direct Injection Tractor Engine using Biodiesel, Ethanol and Diesel Blends" – SERB Reference – EMR/2016/002145)

Department of Farm Machinery & Power

College of Agricultural Engineering & Technology

Orissa University of Agriculture & Technology,

Govt. of Odisha, Bhubaneswar-751003



Letter No: .....

Date: .....

## QUOTATION CALL NOTICE

**Torque Signal Conditioner** is required for the project "Tribological Analysis of a Direct Injection Tractor Engine using Biodiesel, Ethanol and Diesel Blends" functioning in the Department of Farm Machinery and Power, College of Agricultural Engineering and Technology, OUAT, Bhubaneswar. The detailed specification is given below. Sealed quotations are invited from interested firms to quote their lowest price along with necessary documents if any on or before 27<sup>th</sup> January, 2019.

Sl. No.	Item	Specification	Quantity
1.	<b>Torque Signal Conditioner</b>	Modulation Type: FM/FM (100 kHz deviation typical), Capture Range: 9.90 MHz to 11.10 MHz, Center Frequency: 10.68 MHz, Modulated Frequency Range: 1.0 kHz to 2.2 kHz, Input Signal Amplitude Range: 0.30 mV to 3.0 V, Standard Output: 0 TO +10V, Optional Outputs: 0 to +- 5V (differential)0 to +- 5V (isolated)0 to +- 1mA (single-ended)4 to 20 mA (isolated), 0 to ± 1V, 0 to ±.5mA, Signal To Noise Ratio: Better than 40 dB, Repeatability: 0.1% of full scale, Linearity: 0.1% of full scale, Accuracy: +- 0.5% of full scale, Power Requirements: 109-121 VAC / 60 Hz, Power Dissipation: 10.8 Watts (Maximum), Power supply Current: 450 mA (Maximum), Input Impedance: 100 kohms, Output Impedance: 1 ohm, Temperature Range: 14EF to 149EF – operating, Interface: 10 Pin terminal block, Elapse Time Indicator: Optional, Construction: Aluminum alloy enclosure, Weight: 12.0 lbs	1

Sealed quotations are to be submitted to the undersigned with necessary documents which includes tax clearance Certificate and a photocopy of pan card.

### Terms and Conditions

1. The firms must have the GST registration number and up to-date tax clearance certificate.
2. Payment is to be made strictly on receipt of items of good quality and the services up to satisfaction.
3. The authority reserves right to cancel or change the quotation without mentioning the reason thereof.

Principal Investigator  
(Dr. Pradeepta Kumar Sahoo)