

# Department of Electrical Engineering

Indian Institute of Technology, Kanpur

8<sup>th</sup> May 2015

Reference No: IIT/EE/LB/2014-15/P/05

Subject: Inviting sealed quotations for solar array simulator

Sealed quotations are invited for PV panel/solar array simulator for research purpose. Quotation is requested for 5 units. The requirements for each unit are mentioned below:

## Features:

The simulator should be able to simulate accurately for the given VI curve

Proper environment condition simulation

Real time analysis of PV inverters MPPT tracking via soft panel

captured data from instrument recorded via soft panel

Four point simulation based on reference parameter

VI/PV curve display in soft panel

LAN and USB interfaces standard

Series panel simulation

Input Line Voltage	100 to 260 V <sub>AC</sub> 45-60Hz 1Ph	
Output Ratings	Maximum Power	1 KW
	Maximum Open Circuit Voltage	120V
	Maximum Short Circuit Current	11A
	Voltage at Maximum power	120V
	Current at Maximum power	8.34A
	Minimum Impedance	1Ω
	Voltage	0-120V
	Current	0-8.5A

	Operating Temperature	0-50°C
	Output Voltage Ripple and Noise	20mV P-P
Programming Accuracy	Voltage	0.2% of F.S $\pm$ 1lsb
	Current	0.5% of F.S $\pm$ 1lsb
Read Back Accuracy	Voltage	0.2% of F.S
	Current	0.2% of F.S
Load Regulation	Constant Voltage	0.1%
	Constant Current	0.1%
Line Regulation	Constant Voltage	0.1%
	Constant Voltage	0.1%

**Last date for submission of quote is 18<sup>th</sup> May 2015, (5PM)**

The Quotation in sealed envelope should be sent to the following address:

**Dr. Laxmidhar Behera**

Professor.

WL-Room No. 212A

Email: lbehera@iitk.ac.in

Department of Electrical Engineering,

IIT Kanpur - UP - 208016.