



**NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA  
TEQIP -II CELL**

No. NITR/TQ/2013/NCB/L/714

Date:22/11/2013

**Addendum**

The Pre-bid meeting was held on 19<sup>th</sup> November, 2013 to discuss the supply of following equipment under TEQIP-II (Tender reference no. NITR/TQ/NCB/2013/676 dated. 21.10.2013).

1. 100 KW Solar PV Experimental setup.
2. PV-Wind Energy System Experimental Set up.
3. Wind Energy Control System.

On request of the representatives of all suppliers participated in the meeting, the last date for submission of bids is changed as follows.

- ❖ **Last Date for submission of Revised technical & Price bids - 09/12/2013, time 12.00A.M.**
- ❖ **Techno – commercial presentation – 09/12/2013, 3.00 P.M.**

The specification of each equipment is amended as follows.

**Item 1. 100 KW Solar PV Experimental setup**

- i) There must be provision for Data Acquisition for signals such as voltage /current of the PV Panels, temperature and solar radiation.
- ii) There must be provision for implementation of different algorithms such as maximum power point tracking, inverter control for grid integration on a digital computing platform such as dSPACE /FPGA connected to a PC.
- iii) There must be clear note on the possible experiments and research scope that can be pursued in the set up.

**Item 2. PV-Wind Energy System Experimental Set up**

- i) Details of Wind turbine Emulator, wind generator to be provided.
- ii) A programmable power source to be integrated.
- iii) Design of a shut Active power filter to be integrated in the AC-converter.
- iv) PV System converter is to be of with 2 kw necessary DC-Convertors & Filters.

**Item 3. Wind Energy Control System.**

- i) Provision for studying grid integration issues is to be incorporated.
- ii) A Programmable AC Source to be provided.
- iii) A Real-time digital simulator .for example .Opal -RT is to be incorporated.

**Nodal Officer (Procurement)**  
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