

**Rajiv Gandhi Institute of Technology, Kottayam**


No. D3/6334/16/RIT

Dated: 04.01.2017

TENDER SCHEDULE

Superscription : Tender No.D3/6334/16/RIT, purchase of 'Solar Photovoltaic Array Simulator' for the Research Lab in the EEE Department

Last date and time receipt of tender : 25/01/2017 11 a.m

Date and time of opening of tender : ~~25/01/2017~~ 2 p.m 31-01-17 

Last date and time of sale of tender form : 24/01/2017 2 p.m

Date upto which the rates are to be firm : 31/06/2017

Cost of tender form : **Original Rs.1890/- includes VAT 5%**  
**Duplicate Rs.Nil**  
**By Post Rs.Nil**

Address of the Officer from whom Tender Forms are to be obtained to whom tenders are to be send : THE PRINCIPAL,  
RAJIV GANDHI INSTITUTE OF TECHNOLOGY,  
VELLOOR P.O,  
PAMPADY,  
KOTTAYAM,  
KERALA,  
PIN -686 501

List of Items Required

Details of items

Quantity

1 List attached



  
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KOTTAYAM- 686 501

Sl.No	Item	Specification	Quantity
1	Solar Photovoltaic Array Simulator	<ul style="list-style-type: none"> <li>◆ Voltage range:0-150 V</li> <li>◆ 10kW high power density module with easy master/slave parallel operation</li> <li>◆ Fast transient response solar array simulation</li> <li>◆ Simulation of multiple solar cell material's I-V characteristic (fill factor)</li> <li>◆ Simulation of dynamic irradiation intensity and temperature level from clear day to cloud cover conditions</li> <li>◆ Shadowed I-V curve output simulation (up to 4096 data points)</li> <li>◆ Low leakage current &lt; 3mA</li> <li>◆ Precision V &amp; I measurements required</li> <li>◆ Auto I-V program: 100 I-V curves &amp; Dwell time 1-15,000s</li> <li>◆ Data recorded via software</li> <li>◆ Standard USB and Ethernet interface</li> <li>◆ Real time analysis of PV inverter's MPPT tracing via software</li> <li>◆ Free graphic user interface - soft panel for operation</li> <li>◆ Real world weather simulation fast I-V curve update rate: 1s</li> <li>◆ Support up to six-channel SAS control for multi-MPPT testing</li> <li>◆ Build- in dynamic MPPT test profile of EN50530, Sandia, CGC/GF004 and NB/T 32004</li> <li>◆ Laptop with following specification</li> </ul>	1 no



  
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Intel® Core™ i7-6500U with Intel® HD graphics 520  
(2.5 GHz, up to 3.1 GHz, 4MB cache, 2 cores)  
8 GB LPDDR3 SDRAM (onboard)  
256 GB M.2 SSD  
Intel® HD Graphics 520  
13.3" Anti-glare Full HD Display  
802.11 a/b/g/n/ac (2x2) and Bluetooth® 4.0  
combo (Intel Widi support along with Miracast)  
3 USB; 1 headphone/microphone  
combo Bang & Olufsen Audio with dual speakers  
and equalizer software: Designed for True Audio  
Perfection on a PC



  
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