



Phone :+91-512-597102(O)
+91-512-598772 (R)
Fax: +91-512-590063
e-mail: rsanand@iitk.ac.in
Home page: home.iitk.ac.in/~rsanand

No.RSA/Dec14/01
Electrical Engineering Department
INDIAN INSTITUTE OF TECHNOLOGY
KANPUR 208016 INDIA

09 Dec 2014.

Dr. RAGHUBIR SINGH ANAND
Consultant, Ex-Chief Research Engineer

Tender Notice for Grid tied Solar Inverter for 9KWp Solar Power Plant

Quotations are invited for a Grid tied solar inverter with following specifications:

1. Rating - 9-12 KWp, 3 phase AC grid tied string inverter. Quantity – 1.
2. Plant size 9 KWp.
3. Efficiency more than 96.5%
4. Inverters should be nominally rated to inject full rated power into 415 V, 50 Hz, 3-phase, 4-wire AC grid.
5. Inverters must incorporate all standard protection features including, but not limited to, overload, grid over/under voltage, incorrect phase sequence, frequency deviation, short-circuit, input dc over/under voltage, input cable disconnection, line surges etc.
6. Inverters should also be additionally capable of injecting full rated power under normal grid voltage fluctuations (400-460 V line-to-line, rms) and frequency variations (48.5 Hz – 51.5 Hz).
7. Harmonic injection under all operating conditions must adhere to IEEE-512, 1992 norms.
8. Insolation sensitive auto-startup (on availability of daylight) and auto-shutdown (in absence of daylight) features must be incorporated.
9. Isolation between inverter and AC Distribution Board must be provided in case any PV array output terminal is earthed.
10. Connectivity through inverter owner's portal using web box/internet to make available DC voltage, currents, daily, weekly, monthly, yearly power & energy, AC voltage, current, frequency, power factor, temperature and Sun Global irradiance. This data should be made completely available to IITK without any additional charges for the entire operational lifetime of the inverter.
11. Warranty at least 5 years, 10 years will be preferred.
12. Validity of Quotation for 60 days.
13. Last date of receipt of Quotation is 19 Dec 2014, 3 PM.

(RS Anand)