

13 April 2017

## **Invitation for Expression of Interest for Technology Transfer A GRID INTERFACED SMART CHARGING STATION**

### ***Background:***

IIT Delhi offers for licensing a technology on a grid interfaced wind-solar complementary new-energy chamber type automobile charging station. It coordinates charging of electric vehicles using a power conditioning unit incorporating smart operational traits such as, de-rating of PV, managing aggregator command from the grid, demand side management etc. It includes the assessment of grid requirement by way of receiving aggregator command and provides support of both the active power requirement and reactive power requirement. Islanding occurs when grid fails out and the solar panels will continue to deliver power as long as irradiance is sufficient. In existing systems neither there is coordination between charging station and grid nor there is a grid support system.

***Validation:*** The device has been developed at lab scale and tested in lab by IIT Delhi. It has been implemented in the real time at lab scale. It is currently at a scale of 1kW. The device needs further development, scale up, and testing before deployment in the market.

***Intellectual protection:*** An Indian patent application has been filed.

***Partnership for development and dissemination:*** Note this is not a hands-off technology transfer proposal. The group at IIT Delhi is committed to working on development and dissemination of technology. The group would work with the industrial partner for scaling up in India.

***Eligibility criteria:*** The eligibility criteria are as follows:-

1. The company must be registered in operation and enclose last three years audited balance sheets. Audited balance sheet less than 3 years will be considered in case of start ups with shorter operating history (Annexure I: enclose proof, copies of PAN, TAN, MOA and balance sheets)
2. The company must have expertise in the field of power electronics and should have established in house fabrication, designing and manufacturing unit with qualified engineers. In absence of in house manufacturing facilities it should have requisite toll manufacturing arrangement with third parties. (Annexure II: please provide qualifications of employees, experts and details of the facilities)

**Prequalification criteria:** The company should meet the following criteria to be considered for the next level:

1. The technical evaluation will be done for the bids meeting or offering above the financial terms Rs. 1.5 Lakhs upfront (+service tax) and 5% royalty (+service tax).

**How to apply:** Interested parties have to submit the below mentioned documents along with a demand draft of Rs. 2000, in favour of FITT, IIT Delhi payable at New Delhi.

1. A brief statement of how the company plans to take this product forward, development and a commercialization plan.
2. Proof of registration and in operation of the company.
3. Copies of PAN, TAN and MOA
4. Company Brochure, facilities available and qualification details of the employees
5. Audited balance sheets.

**Note: Expression of interest should be stamped and signed by authorized signatory.**

**Where to submit:** The application along with the demand draft can be submitted as a hard copy to Managing Director, Foundation of Innovation and Technology Transfer, Deans Complex, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi -110016 and a soft copy to [mdfitt@gmail.com](mailto:mdfitt@gmail.com) within ten days of this advertisement with envelope/subject marked as **EOI for smartgrid technology licensing**.

**Technology transfer terms:**

1. Non-exclusive license (negotiable)
2. The licensee will have to conduct testing in connection to this technology.
3. The Licensee's work performance in connection to this technology will be monitored.
4. The licensee should submit annual statement of their sales/accounts in connection to this technology.

**Investment from company's side:**

1. Costs towards the development and scale up of the device
2. Costs towards technology transfer

Detailed terms and conditions will be shared with the selected company.

**Next steps:** All eligible parties would be called for presentation to assess their strengths before deciding on the technology transfer partner.

**For any queries please write to [mdfitt@gmail.com](mailto:mdfitt@gmail.com).**