

## **Global Expression of Interest for partnering BHEL in bids for setting up MW size Solar PV Power Plants in India**

### **Background:**

BHEL is the largest engineering and manufacturing enterprise in India, providing total turnkey solutions in the area of Energy, Industry, Transportation and Renewable Energy. It has achieved turnover of equivalent US \$ 7.5 billion in last year. Apart from other products and services, it has over two and half decades of exposure in the design and manufacture of Solar Photovoltaic products and systems and has installed around 20 MW of SPV Systems in the country, till date.

BHEL has plans to participate in forthcoming tenders for setting up large size Solar Photovoltaic Power Plants across India.

In this connection BHEL invites proposals from leading Solar PV manufactures and integrators from across the globe with requisite experience and financial strength to join hand with BHEL as a joint bidder / consortium partner in the forthcoming Tenders in India. The split of responsibility shall be finalized for each project.

### **Qualifying Requirements:**

#### **1. Technical:**

- A. The Bidder should have experience of having successfully completed contracts for engineering, procurement, supply, installation, testing, commissioning and O&M of large scale Grid connected Solar PV Power Generation Plants with at least one project rated minimum 5 MWp.
- B. Bidder should also have experience of having operated and maintained such Power Plant(s) for a minimum period of one year & that plant should be in operation as on the date of EOI submission. The bidder shall furnish a performance certificate in English issued by competent authority; clearly mentioning that the bidder has designed, engineered, supplied, installed, tested, commissioned, operated and maintained the project for a minimum period of one year from date of commissioning.
- C. The Bidder shall submit copy of Power Purchase Agreement and Energy Sales Certificate for a period of at least one year from the utility company concerned for power plants developed, designed, engineered, supplied, installed, tested, commissioned, operated and maintained .by the bidders.
- D. Preference will be given to the bidder who have executed multiple Solar PV Power Projects with both C-Si PV and Thin Film PV Modules and operated and maintained at least for a period of 1 year.
- E. The bidder should have been in the business of Solar PV for at least last 5 calendar years including year 2010.
- F. Integrators having their own Solar PV design & manufacturing facility would only be considered.
- G. The bidders should possess the latest relevant IEC/UL certificates for the PV Modules and Systems offered by them (eg. IEC 61215 for c-Si, IEC 61646 for thin film, IEC 62108 for concentrated PV modulesd, IEC 61730 for safety/testing, IEC 61701 for application in corrosive atmosphere etc.)

2. **Financial Criteria:**

- A. Net Worth: The bidder should have/had minimum net worth of Rs.1500 million or US \$ 32 million at least in one year during the last four years of operation. To demonstrate fulfillment of the criteria, the bidder shall submit a certificate from a Chartered Accountant / Agency certifying the Net Worth. For the purposes of meeting financial requirements only unconsolidated audited annual accounts shall be used.
- B. Turnover: The average annual turnover during the preceding three consecutive financial years, of the Bidder should be at least Rs.3000 million or US \$ 64 million from the bidder's business as an EPC contractor of Solar Power Generation Projects.
- C. The bidders should be prepared to meet all technical, commercial and financial contractual commitments as required by the customers, which have to be finalized on mutual agreement basis.

3. **Life of the project:**

The project life shall be minimum 25 years after commercial production with degradation in guaranteed efficiency / output not reducing below 80%.

4. **Selection criteria:**

In addition to the para 1, 2 and 3 above, the bids shall be evaluated on basis of the modules' efficiency, generation data, price competitiveness, E&C and O&M services.

For further information please contact:

Amitava Roy,  
Additional General Manager (CMG),  
Bharat Heavy Electricals Limited,  
Integrated Office Complex, Lodhi Road,  
New Delhi -110003, INDIA.  
Email:amitavaroy@bhelindustry.com  
Phone: +91 11 41793122  
Mobile: +91 9818026793