

## **Expression of Interest**

Expressions of Interest are invited from reputed consultants/firms for Development of Remote Monitoring Mechanism (RMM) for Solar Photovoltaic Systems (SPV) installed in the remote villages of the State. Details could be had at [www.oredaorissa.com](http://www.oredaorissa.com). Last date for submission of proposals is 4.00 p.m. of 10.2.2009.

### **Details**

#### **Back Ground:**

OREDA under its' Remote Village Electrification Program (RVEP) installs stand alone street lighting systems, home lighting systems and power generating plants mainly based on solar photovoltaic (SPV) technology. Solar PV systems, contrary to the common belief, need regular/seasonal monitoring in order to increase their effective service life. Since the systems are installed in very remote locations regular manual monitoring is often impeded by difficult logistics and weather conditions. Keeping this in view OREDA contemplates to develop a Remote Monitoring Mechanism through which the actual status of the system can be known on a daily basis at OREDA Hqr in Bhubaneswar.

#### **Scope of the assignment:**

The scope of the assignment entails design, development, demonstration and actual installation of the systems in remote villages to be assigned post demonstration.

#### **Qualification Criteria:**

The consultant/firm should have adequate experience in design and development of similar systems/ devices. And must be based in India. The profile to be submitted in this context should include the following:

1. Experience in similar projects as proposed above and documentary evidence in support of the same.
2. Technical details of at least one such device/gadget designed and developed by the consultant/firm.

**Technical details:**

The system to be designed and developed by the selected firm is expected to act as an interface between the PV systems installed in the villages and the server of OREDA such the status of the systems is recorded in the server on a daily basis which can be retrieved by designated officers of OREDA at their respective nodes or even on their mobile phones on holidays for needful action. The system may make use of wireless sensors nodes, trans receivers, data loggers, RF modems, GSM/ GPRS modems etc. to make the above idea/concept work. Not binding to the above, the consultant/firm is free to give his own idea/ concept and configuration of the system to be developed.

**Deliverables**

1. Concept note and a detailed plan for accomplishing the assignments indicating timelines etc.
2. Financial details for design, development and large scale dissemination
3. Prototype of the system for installation and testing in one of the locations.
4. Actual system at least 20 in number for trial tests.

**Consultancy fee:**

The consultants/firms should quote their fees separately for a) design, development and testing and b) supply of 20 systems for trial tests.

**Payment schedule:**

S/N	Activity	Payment %
1	Submission of concept note and plan of action	20% of a
2	Delivery and testing of the prototype	30% of a
3	Necessary alteration, modification and final acceptance of the systems	50% of a
4	Supply and trial test of 20 systems	50% as advance on submission of BG for the same amount and balance on completion of the trial test.

**EMD:**

All interested applicants are required to deposit Earnest Money amounting to Rs 20,000/-

**Short listing of consultants/firms:**

All applications received on or before the last date will be scrutinized and short listed on the basis of merit.

**Presentation:**

All short listed consultants/firms shall be invited to make presentations on their respective proposal at OREDA, Bhubaneswar.

**Selection of consultants:**

The consultants will be selected on the basis of merit and quoted fee for the assignment.

**Time frame:**

The prototype should be developed and tested within 3 months from the date of award of the assignment. Any delay without adequate reason and /or without prior grant of time extension by the undersigned will attract penalty as per prevailing practice of OREDA.

The undersigned reserves the right to accept /reject any or all the applications without assigning any reason thereof.

**The last date of submission of bid is 10.02.2009 at OREDA office, Bhubaneswar.**

**Chief Executive**