



ODISHA RENEWABLE ENERGY DEVELOPMENT AGENCY

S-3/59, MANCHESHWAR INDUSTRIAL ESTATE

Bhubaneswar-751010, ODISHA

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EOI No. 3213 dated 19.08.2020

Expression of Interest (EOI) for designing, engineering, installing, testing, commissioning along with operating and maintaining solar-based drinking water kiosks in Konark NAC, Odisha

Notice Inviting EOI

Expressions of Interest (EOI) are invited from reputed manufacturers/integrators (“Participants”) of solar-based drinking water kiosks for sharing their experiences and technical know-how about various aspects of solar-based drinking water kiosks such as design, capacity, technical specification, maintenance requirements, etc. and as per the scope of work requirements in connection with “Solarization of Konark”, a project being implemented in Konark, Odisha under the high Visibility Solar Applications programme of Ministry of New and Renewable Energy, Government of India.

All interested Participants are requested to submit their response to this EOI through email as per the requirements in this EOI by 29.08.2020.

The select Participants will be required to make online presentations about their products and services as per schedule to be intimated subsequently.

-Sd-
Chief Executive

Background

“Solarization of Konark” is a project proposed under the High Visibility Solar Applications Scheme and Off-grid Solar Power Scheme of the Ministry of New and Renewable Energy (MNRE), Government of India. The project prima facie envisages the Solarization of Notified Area Council (NAC) in Konark. The broad objective of the Project is minimizing the overall carbon footprint of the NAC through the replacement of conventional grid power by solar energy. The Project primarily entails the installation of a grid-connected solar power plant of suitable capacity to make Konark a Z-NET (zero net energy) NAC. It further explores the relevance and scope of introducing various on-grid and off-grid applications of solar power in the context of the NAC. The various applications include street lighting, provision of clean drinking water, e-public transport system, assured power supply to places of public gathering/sensitive areas, etc.

Under this initiative, a total of forty (40) numbers of solar-based drinking water kiosks are proposed to be installed at Konark Temple and the surrounding market and public places in the Konark NAC area (“Project”).

Objectives

- To develop an understanding of the technical, operational, and maintenance aspects of solar-based drinking water kiosks through a consultative process.
- To float a Request for Proposal (RFP) subsequently for selection of a Participant for designing, engineering, installing, testing, commissioning along with operating and maintaining solar-based drinking water kiosks in Konark NAC, Odisha for a period of five years.

Requirements:

- Water Kiosk shall have a minimum input water storage capacity of 5,000 litres that can be increased as per the requirement and minimum filtered water storage capacity of 1,000 liters.
- Kiosk water dispensing/ filling speed should be a minimum of 10 – 12 litres/ minute.
- Kiosk shall be equipped with a suitable water filtration process to meet BIS 10500 Standard and power by the standalone solar PV system only.
- The water, before being dispensed to the public, shall be treated with filtration process and should be in-built litter spaces in each Water Kiosks.
- Users may be able to carry water up to 20 – 25 litres capacity Jerry Can. There should be a suitable vending place in water kiosks for filling a Jerry Can of 20 – 25 litres capacity.

- There shall be quality control and monitoring systems to be incorporated at each water kiosk location to monitor:
 - Number of bottles and litres of water dispensed in a day, and
 - The water level in the tank that can be tracked from the control command center.
- There will be backend wireless communication:
 - GPRS module for communication with backend web server, and
 - GPS module for Kiosk Location information.
- Water kiosks should be provided with an appropriate system for the disposal of waste-water to the sewerage system.

Who can participate in the EOI

The following are the eligibility criteria for participating in the EOI.

1. The Participant should be a single business entity registered as a company or proprietorship firm under the applicable laws in India.
2. The Participant shall have experience of at least one (1) year from the last date of submission of the response to the EOI in design, engineering, supply, installation, testing, commissioning, operation and maintenance of at least twenty-five (25) nos. of solar-based drinking water kiosks in India.
3. The Participant shall not be blacklisted by any Government Agency/ Authority.
4. The Participant should have up to date knowledge and information about solar-based drinking water kiosks, their functionality, maintenance aspects, and other associated issues.
5. The Participant should have complete knowledge of the project area, including its geo-climatic challenges.

Submission of EOI

The responses submitted by the participating Participants should cover the following points:

1. Brief description of the business, year of incorporation, management, and experience of the firm.
2. Detailed technical specification of solar-based drinking water kiosks.
3. Land requirement for installation of drinking water kiosks and solar PV system with battery storage.
4. Energy requirement of drinking water kiosks and detailed calculation for sizing of the solar PV system and battery storage considering a standalone operation.
5. Engineering design and drawing for both civil and electrical works of solar-based drinking water kiosks.

6. Business plan for running, operation, and maintenance of the proposed solar-based drinking water kiosks.
7. Any other specific requirements such as input water pressure and quality, energy consumption during filtration and water dispensing/filling, waste-water disposal, etc. for the smooth functioning of the Project.
8. Manpower requirement for operation and maintenance of solar-based drinking water kiosks.
9. Recommended capacity of solar-based drinking water kiosks as per the requirement and specifications mentioned above.
10. Case study of past installation of solar-based drinking water kiosks.
11. Major risks in the operation and maintenance of solar-based drinking water kiosks.
12. Filled Application Format as enclosed at Annexure-A.

Selection Parameters

The responses submitted by Participants for the Project will be evaluated based on the following parameters for the preparation of the RFP:

1. A detailed description of the specifications for Solar-based Drinking Water Kiosks.
2. Engineering design and drawing for both civil and electrical works.
3. The number of solar-based drinking water kiosks systems commissioned, operated, and maintained by the agency.
4. Detailed business plan for running, operation, and maintenance of the proposed solar-based drinking water kiosks.
5. Novelties proposed in the Project in question.

Selection Procedure

1. OREDA will form a Technical Committee for evaluation of the responses submitted by the Participants.
2. The committee shall request the Participants to make online presentations on their products.
3. The Technical Committee will shortlist the responses based on the selection parameters as decided by the committee, from the various selection parameters stated above to prepare the RFP.
4. Final recommendations from the Technical Committee will be placed before CE OREDA, for approval.
5. Following approval, the RFP document will be finalized and published.

Procedure for submitting the response under this EOI

All the responses will be submitted through Email to ceoreda@oredaorissa.com on or before the scheduled date.

List of Documents to be submitted

1. A proposal in response to the EOI covering the scope highlighted above.
2. Legal registration certificate of the Participant's organization.
3. Letter of awards/ Work Orders/ contract agreement along with the Joint Commissioning Certificates as evidence of the Participant experience of achieving commissioning of at least Twenty Five (25) no of solar-based drinking water kiosks.

Timeline

Sl. No.	Activity	Timeline
1.	Issue of EOI for development of the Project	19.08.2020
2.	Last date and time of submission of the response to EOI	29.08.2020
3.	Online presentation of the response made by the Participants	To be intimated later
4.	Finalization of RFP	To be intimated later

-Sd-
Chief Executive

Application

Name of the company/firm	
Detail Postal address of the registered office	
Date of incorporation/registration (attach a photocopy of the certificate of incorporation/registration)	
Name of the head of the organization	
Name of the contact person	
Contact details	
Phone	
Fax	
Email	
Experience in manufacturing/assembling solar drinking water kiosk	
No. of solar drinking water kiosk commissioned during the last three years. (please provide site-wise details such as the name of the site, capacity, numbers, purpose for which the solar drinking water kiosk was installed, name and contact details of the client, etc.	
Description of other important activities being carried out mainly in solar PV space.	
Name of the other national/International organization with which the firm has collaborated particularly (Copies of MOUs/work orders may be furnished)	
Major works in hand	
Size and spread of the organization (Give the list of the staff and names of the districts/blocks/villages where the organization has worked).	
Details of finances handled by the organization for managing the proposed assignment (give a detailed analysis in a separate sheet.)	

*****End of EOI*****