Procurement of Advanced Grid Stabilization System at Oakridge Substation – Budgetary Tender

Oakridge Electric Utility Authority (OEA) hereby invites proposals for the design, engineering, procurement, and commissioning of an advanced Static Synchronous Compensator (STATCOM) system at the 132 kV Oakridge Substation. This initiative is part of OEA's strategic grid modernization effort. Tender Number: OEA-2025-014, released on June 19, 2025.

Project Background

The Oakridge grid has seen increased stress and voltage variability due to industrial expansion and distributed solar generation. To address these challenges, OEA is implementing a ±40 Mvar STATCOM system. This STATCOM, connected via a step-down transformer, will regulate voltage and support reactive power compensation.

Requirements and Scope of Work

The STATCOM will be rated at ±40 Mvar and integrated at 132 kV. Required performance includes a sub-cycle response time and harmonic distortion below 3% THD. Integration includes the supply of associated equipment such as transformers, switchgear, and breakers. All equipment will be installed on reinforced concrete pads within the substation perimeter, and the STATCOM will be housed in a weather-resistant enclosure.

Budget and Financial Components

The project budget includes, but is not limited to, the following cost components:

- Equipment Costs: Includes STATCOM core units and associated electrical hardware (transformers, circuit breakers).
- Design and Engineering: Covers complete system design, engineering documentation, and project supervision.
- Installation and Construction: Encompasses site preparation, electrical and mechanical erection.
- Testing and Commissioning: Covers pre-commissioning inspection and final acceptance tests.
- Logistics and Transportation: Includes inland transport, unloading, and storage.
- Miscellaneous Costs: Training, documentation, and spares provisioning.
- Administrative and Legal Costs: All required permits, insurances, and legal reviews.

The indicative cost breakdown includes approximately USD 900,000 for equipment, USD 250,000 for engineering services, and USD 400,000 allocated for installation activities. Testing and commissioning are estimated at USD 100,000, while logistics and handling will add about USD 80,000. An additional USD 70,000 has been earmarked for training, spares, and documentation, with a final USD 50,000 allocated for legal, permits, and insurance-related expenses. This brings the total project budget to approximately USD 1,850,000.

Submission Instructions

Bidders must submit their complete technical and financial proposals in PDF format via the procurement portal no later than October 10, 2025, 4:00 PM local time. Late submissions will not be considered.

Evaluation Methodology

Proposals will be evaluated based on the following weightage: technical compliance (45%), relevant experience (25%), and financial competitiveness (30%). OEA reserves the right to request clarifications or conduct site visits.

Terms and Conditions

Selected vendors will be required to provide a minimum 24-month on-site warranty. Any delay beyond the agreed timeline will incur a penalty of 0.75% of contract value per week, up to a maximum of 10%. All civil works must comply with national safety standards.