Proposal Template

Midcontinent Independent System Operator Transmission Interconnection Projects

July 12, 2021

NOTE: This cover page to be removed and replaced for RFP Respondent's submission

Table of Contents

Proposal Content

Section 1: Proposal Executive Summary

A. Identification of Proposal Participants

B. General corporate background information not to exceed five (5) pages in length.

Section 2: Project Cost & Design

Contractor shall provide project cost and design information as outlined below.

A. Estimated Project Cost

Bidder must complete the Proposal Template for Bid Amount and Payment Schedule Workbook.

B. Project Cost Estimate Supporting Information

C. Project Cost Estimate Binding Escalation and Cost-Containment

D. Any Proposed Project Incentives for Early Delivery

Section 3: Facility Design Quality

Contractor shall provide the following information about their proposed design. Bidders are also required to include a Basis of Design Report (BODR) with their proposals establishing design, construction, and performance specifications of all elements of the Project identifying critical path activities, materials and methods of construction, construction sequencing and other noteworthy items necessary to complete the Project by the required scheduled completion date. A draft BODR shall be submitted with the Proposal and updated at all subsequent design deliverables throughout out the course of the Project.

A. Transmission Line Civil/Structural

i. Proposed Conductor Selection and line ratings

Contractor shall provide the proposed conductors and any supporting analysis used in the conductor selection process. Contractor shall include proposed summer and winter line ratings, proposed emergency ratings, and estimated line losses.

ii. Estimated Positive Sequence Line Impedance & Pi–Equivalent Shunt Susceptance

Contractor shall provide the estimated positive line impedance and Pi-equivalent shunt susceptance.

iii. Galloping and Vibration Consideration

Contractor shall provide proposed conductor vibration mitigation.

iv. OPGW or Communication System Provided and Considered

Contractor shall include proposed OPGW and/or fiber considered.

v. Structure Types, Structure Materials, and Structure Foundations Identified

For each structure type on each of the proposed lines, Contractor shall provide the following information:

- Structure Type
- Structure Material
- Davit arm/Cross Arm Material (if applicable)
- Foundation Type/size/depth/backfill material (if applicable)
- Guy wire size/quantity (if applicable)
- Insulator configuration and proposed insulators

vi. Proposed Grounding Consideration

Contractor shall be required to achieve 10 ohms resistance at the base of each structure.

vii. Lightning Protection and Reliability Consideration

Contractor shall indicate proposed lightning outages per 100 miles per year, along with the analysis and approach.

B. Substation Civil/Structural/Electrical

i. Initial Layout Drawing

ii. One-Line Diagram (switching diagram)

iii. Typical Section/Elevation for the following:

- 500 kV ring bus
- 230 kV ring bus
- 161kV main operating bus
- 161 kV breaker and a half bay

iv. **Protection, Control and Communication System Diagram**

v. **Relay Panel Layouts (panel front drawings including list of materials and components)**

vi. **Protective Relay Control Enclosure Layout**

vii. **Preliminary Material List**

viii. **Basis of Design Criteria for 500 kV, 230 kV, 161 kV**

ix. **Major Equipment Data Sheets and Technical Requirements/Characteristics**

x. **Facility Design Complies with all local Applicable Laws and Regulations**

C. Environmental Impact of Design

D. Quality of Equipment and Materials

Section 4: Project Schedule & Implementation

A. Project Schedule

i. **Project Schedule (Route, Permitting, Right of Way Acquisition, Engineering and Design, Materials, Construction Etc.)**

Contractor shall provide a detailed schedule with their proposal.

B. Project Management Organization and Tools

i. **Project Management Plan**

Contractor shall provide a Project Management plan with their proposal.

C. Route and/or Site Evaluation

i. **Substation: Site Evaluation**

ii. **Substation: Siting Evaluation Studies**

iii. **Substation: Feasibility of Proposed Site**

D. Right-of-Way and Land Acquisition

i. **Identification of Potential Routing Corridors**

Preliminary points of interconnection have been provided with the RFP documents. It is the contractor's responsibility to determine the final route. Contractor shall provide any proposed preliminary routing alternatives with their response.

ii. Right-of-Way and/or Land Acquisitions Identified

For each line, Contractor shall indicate the following:

- Proposed ROW widths
- Number of impacted land owners
- Number of impacted parcels

iii. Right-of-Way and/or Land Acquisitions Plan

Contractor shall provide a ROW and acquisition plan.

E. Engineering and Surveying

F. Material Procurement

G. Regulatory Permitting

i. Summary of Regulatory Permitting and Staff Experience Provided

Contractor shall provide a permitting matrix indicating all required permits for the project and expected duration for obtaining each permit.

Contractor shall provide documentation indicating experience with permitting within Tennessee, Arkansas, and Mississippi, along with permitting experience with Mississippi River crossings.

Section 5: Experience

A. Design

B. Construction Management

i. **Materials Procurement and Management Plan**

ii. **Construction Plan**

iii. **Commissioning Plan**

iv. **Constructability**

v. **Engineering and Surveying Required**

C. Commissioning

D. Capital Resource and Financing Plan

i. **Description of Capital Resources**

ii. **Expected Cash Flows**

iii. **Schedule of Significant Expenditures**

iv. **Capital Reserves**

v. **Credit Ratings**

vi. **Audited and Pro Forma Financial Statements**

E. Specific Transmission Project Experience

i. **Description of three (3) similar transmission projects that include EHV transmission line and substation engineering, route selection, permitting, procurement, construction, and commissioning. Provide project cost performance data, adherence to schedules, and applicable references for permitting activities. Provide Health and Human Safety Performance Metrics for those projects including any industry standardized ratings.**

ii. **USACE permitting references.**

iii. **Experience with permitting and construction in TN, MS and AR**

iv. **Provide client references associated with the projects.**

F. Safety

i. **Site Specific Safety Considerations (construction specific)**

ii. **Safety Record including OSHA/DART report (construction specific)**

Section 6: Supplier Diversity (Additional Bonus)

A. Local Firm and MBWE Participation

Section 7: RFP Respondent and Proposal Participant Information

A. Primary Contact Information

Designate a representative for the Proposal to be the primary contact person with MLGW and provide the requested contact information below:

Name: _____

Title: _____

E-Mail Address: _____

Primary Telephone: _____

Secondary Telephone: _____

Mailing Address: _____

_____

B. Secondary Contact Information

Designate a representative for the Proposal to be the secondary contact person with MLGW and provide the requested contact information below:

Name: _____

Title: _____

E-Mail Address: _____

Primary Telephone: _____

Secondary Telephone: _____

Mailing Address: _____

_____

C. Proposal Attestations and Commitments

D. Project Financial Security

Attachments