

GLOBAL EXPRESSION OF INTEREST (EOI) FOR ONBOARDING OF GLOBAL SERVICE PARTNER OF DESIGN & ENGINEERING SERVICES FOR POWER TRANSMISSION LINE & SUBSTATION

Sterlite Power Transmission Limited (SPTL) is a leading integrated power transmission developer and solutions provider globally, focused on addressing complex challenges in the sector by tackling the key constraints of time, space and capital. Sterlite Power has executed projects of over 13,700 circuit kms and 26,100 MVA in India and Brazil. With an industry-leading portfolio of power conductors, EHV cables and OPGW, Sterlite Power also offers solutions for upgrading, uprating and strengthening existing networks. The Company has set new benchmarks in the industry by use of cutting-edge technologies and innovative financing. Sterlite Power has been recognized with The Economic Times Innovation Awards 2020 and is a recipient of prestigious global awards from S&P Global Platts and International Project Management Association (IPMA).

Sterlite Power invites global Design and Engineering service partners for participating in the RFP process for “Design & Engineering services”. The work on projects will be for transmission line and substations.

Brief Scope of Work:

1. Preparation of Line Profile (Auto CAD/PLS -Latest Version with Survey Data in UTM Coordinates & AUTOCADD Plan n Profile) with tower schedule and KMZ. Tower schedule must contain Tower No., type of tower, extensions, raised chimneys, angle of deviations, span, sectional length, cumulative chainage length, Co-ordinates(X,Y,Z) in both DMS and Lat-Long, wind and weight spans, crossing details, cart track details, any major roads, LT/11/33/66kV line details
2. Preparation of Sag Tension& Tower spotting data for respective lines.
3. Design and Quantity estimation for Foundation drawings w.r.t Soil Investigation reports available / preliminary soil type of respective area based on hydrology report available.
4. Tower Spotting Data and locations including profiling shall be done using computer-aided tower spotting software – PLS CADD (With licensed version only).
5. Complete engineering BOQ estimation report for all Lines.
6. Tower Design, Tower Single Line Diagram, Tower schedule & Tower Summary and Tower General Arrangement Drawings preparation.
7. Fabrication / Shop Drawings for TL Towers.
8. Participation and involvement in Tower Type Testing.
9. Crossing Proposals.
10. Strengthening assessment of existing towers as per latest IS code (802-2015).
11. Preparation of Supply and Erection BOQ.
12. Induced voltage study, if required.

Above are the brief description of the engineering work, detailed scope of work shall be project specific and shall be mutually agreed prior to award of the contract.

Qualification Criteria:

- i. Individual firms or the lead partner of Joint Ventures should have undertaken (or) successfully completed, in the last three [3] years, projects of similar nature i.e. planning, detail engineering and environmental and soil investigation assessments surveys, concept, preliminary and detailed

- design, preparation of tender documents, tender assessment and reporting, vendor drawing supervision and project management for implementation (either independently or as a lead partner of a Joint Venture).
- ii. The consultancy firm/service provider must not have been debarred from SPTL for any reason.
 - iii. SPTL's employees are not allowed to participate in any SPTL tender for engineering consultancy work nor shall they be entrusted with the execution of works or the purchase of material whether in their own name or through a firm in which they are share-holders, agents or members of management board.
 - iv. The consultancy firm/service provider should have at least completed three (3) similar projects in Power Utilities / Developer Authorities in India for the past three (3) years, out of which minimum two (2) similar projects should have been completed.
 - v. The consultancy firm/service provider should have an exclusive In-House Design & Engineering staff and office located in India. In addition, availability of key manpower such as project managers, engineers, technical specialist, etc. should be existing and currently employed by the Firm.
 - vi. The firm should be financially capable. Turnover in each of the immediately preceding three financial years should be equal to or more than the estimated average annual contract value. Annual Financial Report for the past three (3) years duly audited by an independent 3rd party auditor to be submitted. In case of unaudited statements (if there are no audit requirements for auditing of financials as per the local law), the financials shall be accompanied by a certificate from a Certified Accountant. Certificate should also mention the fact that there is no requirement of audit of the financials as per the local law.
 - vii. In SPTL, BIM 5D Modelling of the Substation and Transmission line engineering activity is essential and 3D Model (Drawings) of all substation equipment/component and buildings along with system drawings shall be submitted by the firm. Only competent consultancy firm/service provider for same need to be participate.
 - viii. The consultancy firm/service provider shall be responsible and prepared to engage expertise/consultants for all specialized services of the project for which in-house expertise is not available with them within the professional fee agreed and payable to them.
 - ix. The consultancy firm/service provider should have all necessary licenses, permissions, consents, no objection certificates, approvals as required under the law for carrying out its/their business including those envisaged under the scope of this work.

Additional Terms:

- i. The consultancy firm/service provider shall meet the agreed engineering completion schedule for deliverables.
- ii. First Time Right shall be measured during the project cycle and same must be greater than 95 percentage against all submissions as per Master Drawing List. Any further decrease in first time right percentage shall attract the penalty.
- iii. The consultancy firm/service provider must provide their concurrence against Bid stage BOM of subject package. Detail stage engineering BOM must be without any variation from Bid stage BOM. Any deviation against same shall attract penalty.
- iv. Full compliance to RFP provisions and Codes / standards shall be the responsibility for the consultancy firm/service provider.

- v. Firm responsible for design engineering and validation of Bought out items shall be responsible for all engineering support till the CoD of the project.
- vi. Different software may be used for various engineering activities, difference may arise when comparing results between them. Proper Correlation among all engineering documents and issuance of Construction drawing for site execution shall be the responsibility of consultancy firm/service provider.

Checklist and supporting documents:

Organization Chart	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Company Profile	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Balance Sheet (last 3 years – audited)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Performance certificate from the past clients	YES <input type="checkbox"/>	NO <input type="checkbox"/>
ISO/OSHAS Certificates	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Key References – Client List with complete contact details	YES <input type="checkbox"/>	NO <input type="checkbox"/>
CV of Five [5] key personnel's	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Certificates / Achievements / Awards, if any	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Project Profile	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Technical Collaboration Details.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

Design and Engineering Resources and Information			
1	In-House Design & Engineering staff and office located in India.	Inhouse (Yes/ No)	Outsourced (Yes/ No)
a	Tower Design		
b	Civil Works Design & Engineering		
c	Electrical Design & Engineering		
d	Fire Protection Engineering		
2	Availability of Following Valid Licensed professional version of Software [or equivalent] for Engineering Drafting and calculation work		
a	PLS Cad		
b	PLS Tower		
c	Staad Pro		
d	Auto CAD		

e	Microstation		
f	BoCAD / Revit		
g	5D BIM		
h	Etap / Cym GRID / PSSE		
3	Availability of Licensed Library of IEC, IS and IEEE related to Over Head and Underground Transmission Line and Substations		
4	Availability of in-house Testing & Commissioning Team		

The interested consultancy firm/service provider should evince interest to participate in the Expression of Interest by responding with an email marked with subject “Evince Interest to the Global EOI no. 5119 for Design & Engineering Services” to ronald.joseph@sterlite.com (Mob: +91 7022012112). The submission of details and supporting documents as mentioned in this EOI will be done on Sterlite’s platform within Thirty (30) days of publication of this EOI. Further to this, interested consultancy firm/service provider would be invited to submit their techno-commercial proposal.