

Expression of Interest (EOI)

For

**Helicopter based Tower Erection & Under Slung work across projects
for Sterlite Power**

Sterlite Power Transmission Limited

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INDEX

S No	CONTENTS	Page No.
1	Invitation for Expression of Interest	3
2	Scope of Work	4
3	Helicopter Operator & Sterlite Power responsibility	5
4	Key Requirements	7
5	Qualification Criteria	8
4	Credentials and Supporting Documents	8

GLOBAL EXPRESSION OF INTEREST (EOI) FOR ONBOARDING OF GLOBAL SERVICE PARTNER OF AVIATION SERVICES FOR POWER TRANSMISSION LINE- HELICOPTER BASED MATERIAL LOGISTICS AND TOWER ERECTION

Sterlite Power is a leading global developer of power transmission infrastructure with 25 projects spanning ~13,700 circuit kms in India and Brazil. Our innovative usage of global technologies such as helicranes to aid in project completion, and drones to survey and monitor transmission lines remotely has allowed us to reduce the need for human intervention, and minimize impact on the environment, while also increasing accuracy in project planning and execution.

Our strong local presence and deep understanding of government regulations, in the regions we operate in helps us get things right in the first attempt. Our agile execution approach, and strong partnership ecosystem, working with all leading Indian EPCs has led to the successful completion of projects, ahead of schedule.

Our strong liquidity discipline, and innovative project financing (via IndiGrid InvIT) helps empower our project execution teams to deliver ahead of schedule. We are committed to fulfilling our promises to the market, government and all stakeholders, ahead-of-schedule

Our portfolio consists of 68 Extra High Voltage Lines (EHV) and 26,100 MVA of transformation capacity. The market share enjoyed by Sterlite Power is 31.5%.

Sterlite Power Transmission Limited Invites Expression of Interest (EOI) from Helicopter based Tower Erection & Under Slung/logistics Operations, Technical Crew and support service across multiple projects at Sterlite Power, India.

EOI Document contains details of Project - brief objective & scope of work, Key Responsibilities of the Helicopter Operator, Technical details of the Scope of Work, Project Timelines etc.

All our projects at Sterlite Power are entrusted by REC Transmission Limited (A Govt. India Undertaking) & Power Finance Corporation(PFC, A Govt. India Undertaking) on behalf of Ministry of Power, Govt. of India, to implement projects on Build, Own, Operate and Maintain (BOOM) basis. The intended works of Heli Logistics and Heli Erection will be implemented in Sterlite's currently ongoing projects in India, as mentioned below.

Projects under Execution:

1. Goa-Tamnar Transmission Line (GTTPL)- Goa, India
2. WRNER Package D Transmission Line – Assam & Arunachal, India
3. Udupi-Kasargod Transmission Line(UKTL) – Kerala &Karnataka, India
4. WRNER Package C Transmission Line – Navi Mumbai, Maharashtra, India

Scope of Work:

The purpose of the project is twofold : 1st: To use the helicopter(s) for the transportation of construction materials like cement, sand, aggregate, water, tower parts, conductor wires etc to tough and inaccessible work locations particularly located in hills and forest areas (Helicopter based logistics). 2nd: Carry the semi assembled towers from yard to the site locations and install it on site using helicopter (Helicopter based tower erection). Both these activities are being done to aid the construction of transmission assets by reducing construction timeline, reducing huge manpower dependency and hence minimizing health and safety risks.

Area of operations will be across projects of Sterlite Power, out of which logistics and tower erection can be bifurcated as below.

Logistics:

1. Goa-Tamnar Transmission Line (GTTPL)- Goa, India
2. WRNER Package D Transmission Line – Assam & Arunachal, India
3. Udupi-Kasargod Transmission Line(UKTL) – Kerala & Karnataka, India

Tower Erection:

1. WRNER Package C Transmission Line – Navi Mumbai, Maharashtra, India

Any other new projects Sterlite may win in future will also be added to the scope.

Logistics

This part will include the airlifting of construction materials to the tower locations using helicopters. Construction materials will include all the materials required for the construction of transmission line foundations, erection, stringing and revetment. These include cement, water, sand, aggregate, rebars, Tools and plants, Tower parts(bundles), conductor wires, boulders etc. These materials will be packed in cargo nets and readily available for lifting in the yard. These will be packed according to the lifting capacity of the helicopter to be deployed. Helicopter operator shall be doing the lifting of materials and dropping at designated drop locations according the schedule/plan given by the site ops in charge.

Tower Erection

This part will include the activities regarding the tower erection using helicopter(s). Aviation compatible towers will be designed by Sterlite's engineering team with the helicopter operator's support and it will be assembled in sections in the fly yard. These semi erected tower sections will be lifted by helicopter by proper lifting arrangements and carry to the intended tower locations and assemble/install/join those parts into a full tower structure on site using specialized tools/techniques/manpower. Towers are designed in sections in accordance with the lifting capacity of the helicopter to be used.

Period of deployment

The tentative period for the deployment of helicopter for different projects is as mentioned below. This is subject to change as per actual ground conditions and project requirements.

S#	Project Name	Region	Heli Based work	Tentative Month	Tentative Loads,MT
1	GTTPL	Goa, Karnataka	Logistics	Nov'21-Mar'22	5,000.00
2	WRNER PKG D	Assam & Arunachal	Logistics	Feb'22-Apr'22	4,000.00
3	UKTL	Kerala & Karnataka	Logistics	Jan'22-May'22	2,500.00
4	GTTPL	Goa, Karnataka	Logistics	Sep'22-Dec'22	6,000.00
5	WRNER PKG C	Navi Mumbai	Tower Erection	Sep'22- Dec22	4,000.00
6	Under Bidding	North & North East region	Logistic & Erection	Sep'22- Dec22	10,000.00
				Total Load	31,500.00

Period of Contract

Initially the period of contract/engagement will be for 6-12 months for each project, as per the tentative schedule given above. The same will be extended wrt to the work availability.

Helicopter Operator/ Service provider Responsibilities

1) Operations

- I. Helicopter Service provider shall provide helicopters with all necessary helicopter equipment (Slings/long line/Tower mounting arrangements etc.) arrangement required to perform the operations. Mobilization, assemble, bring the Helicopter to the Job Site in a ready air-worthy condition along with all necessary and essential spares and responsible for demobilization

- II. after completion of Services, including all necessary permits for mobilization-demobilization & flying operations shall be the responsibility of Operator.
- III. Operator has to deploy crew as per the requirement. This includes pilots (Indian and foreign), AME, Ops Executive Manager, Load masters, Technicians, Security Guards, Specialized tower fitters for Heli Erection, Medical officer etc.
- IV. Operator shall maintain, repair and overhaul the Helicopter as per maintenance schedule of the Aircraft as per statutory requirements (as required).
- V. Operator shall provide fuel for Operations (including fuel logistics compatible to the Helicopter refuelling), Helicopter oil, lubricants and greases for the proper operation of these Helicopters which includes permits and permissions thereof.
- VI. In case so desired, a flight recce of the area of operations can be carried out for which Sterlite Power will provide all necessary assistance.
- VII. Load preparation in case of logistics & tower, all loads before lifting has to be verified by the operator's load master.

2) Approval(s)

- I. Helicopter Service Provider shall be responsible for arranging necessary approvals for deploying foreign pilot for the complete tenure including their all necessary approvals, license, mobilization and demobilization of helicopter from base location to site location including daily flying permission, fuel arrangement including its transportation, for respectively regulatory and statutory body of aviation industry/Ministry of Civil Aviation. Operator shall ensure all necessary compliances with all safety regulations directed by Director General of Civil Aviation (DGCA)
- II. Arranging all permission via AOC related to flying.
- III. Arranging WPC permission via AOC for Air to Ground communication
- IV. Arranging all the permission related to fuelling operations, as required.
- V. Procuring administration (DC/DM), Military, local authorities' permission for flying operations from the Yards and landings at the drop site helipads, as required (Sterlite Power will provide all assistance/ documentation/ liaison for the same).

3) Admin and Security

- I. Operator shall be responsible for providing all security for Helicopter 24X7 during the operation, Helicopter Equipment and accessories, Fuel and their personnel throughout the contractual period, not limited to the scope of deployment of resources (manpower, machine, tools and parts) as mentioned above. Responsibility of machine security will be with operator.
- II. Helicopter Service provider will do the necessary arrangement for the food, accommodation and local transport of the Helicopter Crew throughout the project duration.

4) Training and Planning

- I. Helicopter Operator will submit a detailed plan at least one month prior to zero date, which will include all necessary requirements, facilities, safety, security, logistics, fly-yard details, productivity schedule etc.

- II. Operator Project Executive shall be responsible for arranging training at site locations to train Sterlite personnel (including its Sterlite's EPC) to improve skills required for working in flying yards and drop site as well as for specialized tower erection. Especially in case of Heli based erection, the tower assemble training has to be given by the operator to our Indian crew/fitters.
- III. Helicopter Operator will conduct training for at least 2/3 days at the Job Site at least 4-5 days prior to the zero-start date of the project for Sterlite team to improve skills required for working with the Underslung cargo operations and Heli erection. In case required, this training may be carried out in two or more separate modules to familiarise all technical ground personnel with helicopter operations. This training should include all safety / quality and operational aspects of Underslung/Tower erection operations from the ground personnel point of view.

Sterlite Responsibilities

- I. Sterlite Power will provide the necessary support to the Helicopter operator to obtain aviation permits and approvals that may be required.
- II. Sterlite Power will be responsible for the construction of the bases/pick up location(s)/Heliyard(s) from where the operations will be carried out.
- III. Sterlite Power will extend their support to Helicopter service provider to take local permission management including DC/ DM/ Police/Military security arrangements at helipads.
- IV. Sterlite will be responsible for the readiness of the loads at the yard to be dropped at the respective sites. The load has to be jointly verified in presence of the operator's load master. Preparation of correct load with respect to weight & structure especially for tower has to be jointly checked.
- V. Sterlite will be responsible for the design of aviation compatible towers and section wise erection of the same at yard. Necessary support shall be extended by the Helicopter Operator for the same.
- VI. Procurement of the Cargo Nets/Rigging tools (to be as advised by the Helicopter Operator) will be in the Scope of Sterlite Power.

Key Requirements

Techno-Commercial quote comparing of following data points: -

- 1) Admin Cost - Crew Accommodation- Boarding & Lodging/Crew Transportation.
- 2) Security Cost (Helicopter/Crew).
- 3) Per hour flying cost for underslung operation.
- 4) Per hour flying cost for heli erection operation.
- 5) Other Charges

Project Planning

- 1) Fuel & Fuel logistics Plan

- 2) Working Methodology - Rigging (tools and plants)/load releasing & hooking techniques.
- 3) Aircraft Maintenance plan.
- 4) Fly yard requirements (Helipad Specification/load orientation plan/yard layout).
- 5) Fly yard security plan.

Qualification Criteria:

- i. Individual firms or the lead partner of Joint Ventures should have undertaken (or) successfully completed, in the last five [5] years, projects of similar nature i.e. Material Logistics and Tower Erection (either independently or as a lead partner of a Joint Venture).
- ii. The 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 scope of 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 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.
- v. The 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 fee agreed and payable to them.
- vi. The 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.

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"/>
Key References – Client List with complete contact details	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Certificates / Achievements / Awards, if any	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Nature of flying fleets available at your end like “Flying whales’, Helicopters of lifting capacities (1 tonners, 4 tonners and 8 tonners, etc.)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Technical Collaboration Details if any.	YES <input type="checkbox"/>	NO <input type="checkbox"/>