



**CSIR - STRUCTURAL ENGINEERING RESEARCH CENTRE,**  
Chennai – 600 113  
Tel: 044 – 22549145, 22549124  
Email: bkmd@serc.res.in

## **EXPRESSION OF INTEREST**

**FOR**

# **EMERGENCY RETRIEVAL SYSTEM FOR POWER LINES**

**Tender Reference number: 313(II.c.7)/ERS/BKMD-2019**  
**Dated. 31.10.2019**

**EMERGENCY RETRIEVAL SYSTEM FOR POWER LINES**

**EXPRESSION OF INTEREST (EOI)**

**1. Introduction**

CSIR-SERC invites Expression of Interest (EOI) for transferring the technology on **“Emergency Retrieval System for Power Lines”**.

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, India is one of the national laboratories under the Council of Scientific & Industrial Research (CSIR), India. Established in June 1965, CSIR-SERC has built up excellent facilities and expertise for the analysis, design and testing of structures and structural components. Services of the laboratory are being extensively used by the central and state Governments and public and private sector undertakings. The Centre is recognized at the national and international levels as a leading research institution in the field of structural engineering. CSIR-SERC has been certified as ISO 9001:2015 quality institution. CSIR-SERC is engaged with R&D under four different thrust areas and thus has developed sustainable technologies for industrial and societal applications.

Sl. No.	File No.	Item Description
01.	313(II.c.7)/ERS/BKMD-2019	<b>EMERGENCY RETRIEVAL SYSTEM FOR POWER LINES</b>

**2. Objective**

The objective of this EOI is to enlist the competent and interested entrepreneurs for transferring the technology on **“Emergency Retrieval System for Power Lines”** on non-exclusive basis to implement and market at commercial scale.

**3. Application Form and Online Submission:**

The application form for the EOI can be downloaded free of cost directly from Central Public Procurement Portal (CPPP) of Government of India website <https://etenders.gov.in/eprocure/app> and CSIR-SERC website [www.serc.res.in](http://www.serc.res.in). Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <https://etenders.gov.in/eprocure/app>. The portal enrolment is free of cost.

Manual submission will not be accepted. The “Application Form for Technology Transfer” and the “Required Documents (please refer Sl. No. 10 below)” in the pdf format should be submitted online. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’ given in Annexure I.

**4. Schedule for submission:**

The Schedule for Submission of proposals and Opening of proposals is as follows: -

Date & Time of Submission of proposals		Date and Time of Opening of proposals	
Date	Time (IST)	Date	Time (IST)
<b>14<sup>th</sup> November 2019</b>	<b>14.30 hrs.</b>	<b>15<sup>th</sup> November 2019</b>	<b>14.30 hrs.</b>

**5. Tender Fee and EMD: Nil**

**6. Instruction for online submission of EOI:** Please refer Annexure I.

**7. Details about the technology:** Please refer Annexure II.

**8. Demonstration of the technology:**

For demonstration on the technology you may visit: **Tower Testing and Research Station, Tirusulam, CSIR-SERC, Chennai – 600043** (*opposite to International Airport*) on taking prior appointment from: Dr. G.S. Palani, Head, TTRS, CSIR-SERC, Chennai. Ph: 044-22545580, E-mail ID: [pal@serc.res.in](mailto:pal@serc.res.in).

**9. Eligibility criteria:**

1. The Party must be a reputed firm/company/R&D organisation incorporated.
2. The party/entity should be registered and certified by the appropriate authority.
3. The party/entity should have demonstrable infrastructure/resources for undertaking this technology
4. The party/entity should not have been black listed / holiday listed by any other CSIR laboratory, or by any other R&D organization or by Government of India. **A self declaratory letter in this regard must be enclosed.**

**10. Documents to be submitted:**

The following documents pertaining to the party/entity should be submitted online along with the application form:

- a) Copy of registration certificate as a company/industry/legal entity.
- b) Company profile giving details of current activities and management/personnel structure.
- c) The turnover supported by financial statements of accounts/ Annual reports duly certified by a Chartered Accountant/Balance sheet of last 3 years/Income tax return for the last 3 years period.
- d) Documents related to available in house related technological expertise
- e) Self-certified letter about holiday listing / black listing in party/entity letter head.

- f) The list of major machine tools/equipment/software/facilities available related with the work.

**11. Licensing of the technology:**

1. Purpose of this EOI is to only enlist the parties interested in this technology based on their eligibility and competence.
2. Applying through this EOI doesn't entail anyone to claim rights for transfer of technology.
3. The shortlisted applicants will be informed of the further modalities at a later date.

**12. Terms and conditions for the technology transfer:**

- Transfer of technology is prepared based on non-exclusive licensing. However, exclusive licensing will be considered on merit basis.
- The license period will be for seven years.
- Director, CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, reserves the rights to revise, reject, reinstate the offer of EOI, if required. The decision of the Director, CSIR-SERC is final.

**15. Clarifications on the EOI Document**

Any clarification in the EOI document may be sent in writing to the following through email:

*Head, Business, Knowledge, Management & Development Division*

**email: *bkmd@serc.res.in***

**16. Terms and Conditions and Amendments of EOI:**

- CSIR-SERC may at its discretion or as a result of a query, suggestion or comment of party/entity, may modify the EOI document by issuing an amendment or a corrigendum at any time before opening the EOI. Any such Addendum or Corrigendum will be uploaded on CPPP Portal <https://etenders.gov.in/e procure/app> and CSIR-SERC's website and the same will be binding on all the party/entity, as the case may be.
- CSIR-SERC at its discretion may extend the due date of submission of EOI and the decision of CSIR-SERC in this respect would be final and binding on the respondents. In the event of changes in the time schedule, CSIR-SERC shall notify the same only through its CSIR-SERC website [www.serc.res.in](http://www.serc.res.in). Interested party/entity are advised to check the above website regularly for corrigendum / addendum, if any, which will be published only in the web site.
- No oral modification or interpretation of any provisions of this EOI shall be valid. Written communication shall be issued by CSIR-SERC when changes, clarifications or amendments to the EOI document are deemed necessary by CSIR-SERC at its sole discretion.
- EOI submission should be in English language. EOI response should be free from correction, over writing, errors or omissions, etc. Duly authorized representative of the party/entity shall sign on each page of the EOI documents.
- If at any time during the examination, evaluation and comparison of EOI, CSIR-SERC at its discretion can ask the party/entity for the clarification of its EOI. The request for clarification and the response shall be in writing.

- Canvassing by party/entity in any form, including unsolicited letters on EOI submitted or post corrections shall render their EOI response liable for summary rejection.
- Conditional offers will be summarily rejected. EOI which is found to be incomplete in content and / or attachments and / or authentication, etc. is liable to be rejected.
- No Agent/Agents or third party/parties are engaged by CSIR-SERC in this process.
- CSIR-SERC is not responsible for any firm/agency or representing to express himself/herself/themselves to be the agent or third party representing CSIR-SERC in this process.
- Disregard of any instruction may result in offer being ignored.
- All cost and expenses associated with submission of EOI shall be borne by the party/entity while submitting the EOI. CSIR-SERC shall have no liability, in any manner in this regard, or if it decides to terminate the process of short listing for any reason whatsoever.
- The Director, CSIR- Structural Engineering Research Centre, Chennai, India reserves the right to accept or reject any or all EOI Notification/tenders/offers or withdraw the Notice at any stage of processing without assigning any reason whatsoever, such an event would not cause obligation of any kind to CSIR-SERC.

**Enclosures;**

- 1. Annexure – I**
- 2. Annexure – II**

**Annexure – I**

**Instructions for Online Submission of EOI**

The bidders are required to submit soft copies of the EOI application form and the documents electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: **<https://etenders.gov.in/eprocure/app>**.

**REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: **<https://etenders.gov.in/eprocure/app>**) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

**SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

---

## **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of the Bid.

## **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener’s public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender

opening by the authorized bid openers.

9) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

#### **ASSISTANCE TO BIDDERS**

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP



**Annexure – II**

**Details of the Technology on  
Emergency Retrieval System for Power Lines**

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, India is one of the national laboratories under the Council of Scientific & Industrial Research (CSIR), India. Established in June 1965, CSIR-SERC has built up excellent facilities and expertise for the analysis, design and testing of structures and structural components. Services of the laboratory are being extensively used by the central and state Governments and public and private sector undertakings. The Centre is recognized at the national and international levels as a leading research institution in the field of structural engineering. CSIR-SERC has been certified as ISO 9001:2015 quality institution.

CSIR-SERC is engaged with R&D under four different thrust areas and thus has developed sustainable technologies for industrial and societal applications. CSIR-SERC invites **Expression of Interest (Eoi)** from competent and interested entrepreneurs for transferring the technology on “**Emergency Retrieval System for Power Lines**” on non-exclusive basis to implement and market at commercial scale.

**Demonstration of the technology:**

For demonstration on the technology you may visit: **Tower Testing and Research Station, Tirusulam, CSIR-SERC, Chennai – 600043** (*opposite to International Airport*) on taking prior appointment from: Dr. G.S. Palani, Head, TTRS, CSIR-SERC, Chennai. Ph: 044-22545580, E-mail ID: [pal@serc.res.in](mailto:pal@serc.res.in).

**Technical details of the technology:**

The technology and the associated product are meant for quick restoration of power transmission in the aftermath of a tower failure during natural calamities such as cyclones, landslides or earthquakes. ERS is made of lightweight materials to be modular, reusable and structurally stable. The modules and accessories are proof tested for the design loads and the system is verified with prototype test. The technology is an import substitution. The application for protecting the intellectual property of the technology is under process.



**Emergency Retrieval System for Power Lines**

*Target: Industries involved with manufacturing power infrastructure equipment / utilities*

**Commercialization Prospects:**

The indigenous product costs 40% less than the equivalent imported product even after providing superior features. The rapid expansion in infrastructure provide huge market opportunity for this product to the power distribution companies.

**For further details, you may contact:**

The Director, CSIR-SERC, CSIR Campus, CSIR Road, Taramani, Chennai - 600113. Ph: 044-22549201; E-mail ID: [director@serc.res.in](mailto:director@serc.res.in).

Or

The Head, BKMD, CSIR-SERC, CSIR Campus, CSIR Road, Taramani, Chennai - 600113. Ph: 044-22549145; E-mail ID: [bkmd@serc.res.in](mailto:bkmd@serc.res.in).