

## **Global Expression of interest**

**Global Expression of Interest (EOI) for short-listing firms/organizations for development and supply of Broken Rail Detection System working on principal of propagation of guided ultrasonic waves.**

### **1. PURPOSE:**

This Global Expression of interest is invited to short list firms/organizations for development, supply, installation, testing and commissioning of broken rail detection system working on principal of propagation of guided ultrasonic waves for real time detection of breaks in Rail/ welds and generating necessary alarms for protection of trains. The shortlisted firm/organisation will be considered for supply, installation, testing and commissioning of broken rail detection system for undertaking field trials on Indian Railways in two stretches of approx. 25km track length at each trial site. The proposed system shall meet the functional requirements given in "FUNCTIONAL REQUIREMENT SPECIFICATION FOR ULTRASONIC BROKEN RAIL DETECTION SYSTEM" (hereafter referred as FRS) attached as Annexure-'A'.

### **2. BRIEF SCOPE OF WORK:**

- 2.1 The detailed scope of work is given in FRS. This broadly includes supply, installation, testing and commissioning of system at trial locations, imparting necessary training to Indian Railway officials for regular operation of system during the trial period, maintaining the system for defined period and providing necessary technical support.
- 2.2 The Indian Railways service conditions are given in FRS. Suitable modification, customization and further development may be required in the system to suit the Indian Railway condition for satisfactory functioning of the system. This will be done by the firm to the satisfaction of Indian Railways.
- 2.3 After successful field trials, Indian Railways may decide to conduct extended field trials. The firm will be required to provide necessary technical support for extended trials as required by Railways.

### **3. GENERAL INSTRUCTIONS FOR SUBMITTING RESPONSE TO EOI:**

#### **3.1 Eligibility Criteria:**

The eligibility criteria for firms for consideration of offers for short listing shall be as per Para 6.0 of the FRS. The firm will be required to furnish supporting documents to establish that they are meeting the laid down eligibility criteria.

- 3.2 The manufacturer/supplier/ organizations who can supply and install the Broken Rail Detection system as per FRS in two stretches of 25kms each in Indian Railways, maintain the same for three years thereafter and provide training to sufficient number of staff to enable them to operate the system and are meeting the eligibility criteria shall only apply.

#### **3.3 Technical Details to be provided by firm:**

The technical details as per Para 7.0 of FRS shall be submitted by the firm with their offer.

- 3.4 The details submitted by the firm shall be scrutinized by a nominated

committee at RDSO. The deficiency as observed during technical scrutiny or additional information as considered necessary will be advised to the firm/organization. The information must be made available by firm/organization within one month of advice. In case the additional information is not received within stipulated period, the evaluation will be done based on information made available originally.

3.5 The firm will have to arrange detailed technical presentation at RDSO/Lucknow about working procedure and performance details of the offered system, if required by the committee.

3.6 Submission of offers:

The intending firm/ organization shall submit their offer in the format given in Annexure – ‘B’ and undertaking as Annexure – ‘C’.

Apart from this, the requisite documents in proof of meeting the eligibility criteria and Para-wise compliance of items of FRS shall also be submitted.

3.7 The firm shall also submit the budgetary quotation for trial at each stretch of approx. 25km length with cost breakup in a separate sealed envelope placed in the offer. The cost per Km of track length shall also be worked out. The budgetary quotation may be considered subsequently by Railways for placement of order as per extant procedure. However, it will not be necessary for Railways to consider the budgetary quotation for placement of order, as EoI is basically to shortlist the firms.

3.8 The offers received against EoI shall be considered for short-listing the firms/organization. However, Railway reserves the right to consider any offer in whole or part or may reject all the offers without assigning any reason.

#### 4. SELECTION CRITERIA:

The firms meeting the eligibility criteria will be Shortlisted /Selected broadly based on the following criteria.

S.N.	Item	Max. Marks	Remarks
1	Turn-over of the firm in last 3 years	20	Firm having maximum turnover will be given full marks and others as percentile.
2.	Improved Reliability of system	10	
(a)	Offer protection to every train at frequency less than 8 min.	05	The desirable protection is at frequency of 3min. For frequency between 3 to 8 min., marks will be assigned pro-rata.
(b)	Covering complete stretch of Track without any portion left uncovered (Covering area such as turnouts, Switch expansion Joints etc).	05	Marks will be assigned based on improvement over acceptable limitation.
3	Details of supplies made for the item under EOI	25	The firm having maximum will be given

			full marks and others as percentile.
4	Experience and expertise for item under EOI	25	This is based on years of experience in such products/ systems as indicated in Eol. The firm having maximum will be given full marks and others as percentile
5	Details of the manpower with their qualification and experience	10	No. of persons with professional qualification on firm's direct role and percentile.
6	Details of Intellectual Property Rights (IPR) held, patents filed/held and MOU/agreements signed	10	No. of such items and percentile thereof.

The firms getting minimum 80 marks shall be considered for short listing. The short-listing of firms may be limited to firms scoring highest marks, if large number of firms get the minimum marks.

## 5.0 SUBMISSION OF OFFERS:

5.1 The format for submission of offers and “Functional Requirement Specification for Ultrasonic Broken Rail Detection system (Provisional)” can be down loaded from RDSO Website [www.rdsso.indianrailways.gov.in](http://www.rdsso.indianrailways.gov.in).

5.2 The completed application along with undertaking and other supporting documents as required in Eol shall be submitted to Director/Track-II/RDSO/Lucknow by 10.04.2015 till 15.00 Hrs.

5.3 For any clarification, Director/Track-II/RDSO Lucknow can be contacted in person or through e-mail at [dtd4rdsso@gmail.com](mailto:dtd4rdsso@gmail.com).

Director/Track-II  
For Director General (Track)  
RDSO, Lucknow.

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