Notice for Expression of Interest for Implementation of UIC and/or EN standards based Statistical Evaluation Method for Rail Vehicle Assessment for Indian Railways

RDSO is the sole Research, Design and Standards organization of Indian Railways, dedicated to create & adopt technology solutions for Indian. Testing Directorate of RDSO carries out on-track tests of new and modified designs of rolling stock from the point of view of assessment of ride behaviour. Currently, RDSO follows a testing protocol for assessment of ride behaviour, safety and comfort of rail vehicles according to its own criteria. Considering the development of statistical evaluation methods for assessment of rail vehicles by UIC and CEN, it is felt that migration to these methods of vehicle evaluation shall assist the Indian Railways in better assessment of ride comfort and safety of its rolling stock.

The standards developed by UIC and CEN such as UIC-518, UIC-519, UIC-513, EN-14363, ENV12299 etc enable a comprehensive vehicle assessment and considerable experience has also been generated on these standards in advanced world railway systems. With this background, it should be feasible to align the Indian Railways assessment methods to these standards with changes, wherever required, in the existing protocol followed by RDSO.

Objective: To acquire knowhow, develop full capability and implement statistical evaluation based testing protocol for rail vehicles such as UIC-518/EN-14363 along with other relevant standards such as ENV-12299 for comfort assessment of rail vehicles for Indian Railways by RDSO.

Scope of work:

Complete Knowledge Transfer (including all software requirements) for assessment of Rail Vehicle Ride, Safety and Comfort analysis according to UIC Code-518/ EN Standard-14363 (Statistical Evaluation based methods) and any other relevant UIC/EN codes and/or standards for Developing the Capability of and Assisting in Implementation of these standards over Indian Railways by RDSO.
Deliverables:

1. To acquire and assimilate **knowhow about statistical evaluation based standards** of testing for Rail Vehicles through training and field experience of Test Track and Test methodologies in use at international test facilities.

2. **Assessment of IR track data** for developing criteria for classification of track as per requirement of UIC-518/EN-14363 and associated software.

3. To develop **competency for carrying out on-track evaluation** of rail vehicles independently using testing methodology in line with international standards using statistical evaluation methods. **Demonstration using live trials** in India for IR stock over IR track for trial track identification, instrumentation, data acquisition, post processing and analysis and reporting for acquaintance of RDSO personnel in the trial protocols as per UIC/EN standards.

4. Acquisition/Development of computerized data analysis **software** for statistical evaluation of trial data.

5. Development of software package/code for using the simulation software like VAMPIRE and NUCARS already available with RDSO for simulation of vehicle ride parameters in accordance with UIC-518/EN-14363 standards as proposed above.

6. To **develop LHB coach as completely independent platform** for data acquisition and analysis in both on-line and off-line modes.

7. **Assessment of rolling stock acceptance limits** for various parameters for application over BG track of IR.

8. **Development of Instrumented Measuring Wheel for One Rolling Stock of Indian Railways (Locomotive or Coach or Wagon)** and calibration facilities.


Interested firms may propose detailed scope of work and deliverables for the purpose of Knowledge Transfer covered in the ‘Scope of Work’ and ‘Deliverables’ listed above so that the ‘Objective’ that RDSO can independently implement and conduct assessment of Railway Vehicles as per UIC-518/EN-14363 and associated protocols be fulfilled as per their requirement, preferably by 16<sup>th</sup> October 2017 along with details required as per attached Performa.
A meeting of shortlisted firms shall be held in RDSO on 30th October 2017 for further discussions in connection with this project.

For clarifications, if any, Director Testing (HQ) may be contacted during working hours (Monday to Friday except Holidays) on phone no. 0522-2451053, 0522-2455592 or Email: dthq@rdso.railnet.gov.in or rdso.dirtest@gmail.com.

Executive Director/Testing
Telephone no. 0522-2455592
Email Id: edrdsotesting@gmail.com
Website: www.rdso.indianrailways.gov.in
Dear Sir,

Subject: RESPONSE TO – EOI FOR PARTICIPATION

1. We, the undersigned, offer the following information in response to the Expression of Interest sought by you vide your Notification No._______, dated _____.

2. We are duly authorized to represent and act on behalf of ________________ (hereinafter the “respondent”)

3. We have examined and have no reservations to the EOI Document including Addenda No(s) ________________

4. We are attaching with this letter, the copies of original documents defining: -
   a) The Respondent’s legal status;
   b) Its principal place of business;
   c) Its place of incorporation (if respondents are corporations); or its place of registration (if respondents are cooperative institutions, partnerships or individually owned firms);
   d) Self-certified financial statements of Last three years, clearly indicating the financial turn over and net worth.
   e) Copies of any market research, business studies, feasibility reports and the like sponsored by the respondent, relevant to the project under consideration

5. We shall assist MoR and/or its authorized representatives to obtain further clarification from us, if needed.
   a) RDSO and/or its authorized representatives may contact the following nodal persons for further information on any aspects of the Response:

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<th>S.No.</th>
<th>Contact Name</th>
<th>Address</th>
<th>Telephone</th>
<th>E-mail</th>
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6. This application is made in the full understanding that:
   a) Information furnished in response to EOI shall be used confidentially by RDSO for the purpose of development of the project.
   b) RDSO reserves the right to reject or accept any or all applications, cancel the EOI and subsequent bidding process without any obligation to inform the respondent about the grounds of same.
   c) We confirm that we are interested in participating in development of the project.

7. We certify that our turnover and net worth in the last three years is as under:

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<tr>
<th>Financial Year</th>
<th>Turn Over</th>
<th>Net Worth</th>
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8. In response to the EOI we hereby submit the following additional details annexed to this application.
   8.1 Details of various items being manufactured/consultancy undertaken.
   8.2 Details of customer(s) and supplies made in the field of item under EoI.
   8.3 Experience and expertise for the items proposed in EOI.
   8.4 Details of man-power with their qualification and experience.
   8.5 Detailed proposal for items proposed in EOI including alternative proposal, if any.
   8.6 Details of Intellectual Property Rights (IPR) held, patent filed/held and MoU/agreement signed.
   8.7 Details of ISO certification.
   8.8 Address of Branch office in India, if available.
   8.9 Undertaking a per Annexure-A:

9. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail. We also understand that in the event of any information furnished by us being found later on to be incorrect or any material information having been suppressed, RDSO may delete our name from the list of qualified Respondents. We further understand that RDSO will give first preference to the applicants considered relevant for the purpose10. Our response is valid till (date in figures and words):__________________________

Yours sincerely,

(Sign)

NAME
In the capacity of
Duly authorized to sign the response for and on behalf of
Date
Annexure-A

(To be taken on non-judicial stamp paper of appropriate value as applicable in the respective state and dully notarised & witnessed)

UNDEARTAKING

I, son of ................. aged about ........ Years resident of ............ do hereby solemnly affirm as under:

1. That the deponent is the Authorised signatory of (Name of the Sole Proprietorship Concern/Partnership Firm/Registered Company/Joint Venture).

2. That the deponent declares on behalf of (Name of the Sole Proprietorship Concern/Partnership Firm/Registered Company/Joint Venture) that:

   a) In regard to matters relating to the security and integrity of the country, no charge sheet has been filed by an agency of the Government / conviction by a Court of Law for an offence committed by the --------------------------(name of the entity)or by any sister concern of the --------------------------(name of the entity) would result in disqualification.

   b) In regard to matters other than the security and integrity of the country, -------------------- (name of the entity) has not been convicted by a Court of Law or indicted / passed any adverse order by a regulatory authority against it or it’s any sister concern which relates to a grave offence, or would constitute disqualification. Grave offence is defined to be of such a nature that it outrages the moral sense of the community.

   DEPONENT

VERIFICATION

I declare that the contents of para 1 to 2 above are true as per my knowledge and nothing has been hidden.

DEPONENT