

**GOVERNMENT OF INDIA: MINISTRY OF RAILWAYS
RESEARCH DESIGNS & STANDARDS ORGANISATION
MANAK NAGAR, LUCKNOW – 226 011.**

EXPRESSION OF INTEREST

EOI No: **CARRIAGE (SS)-05-2023**

Date: 17.11.2023

Ministry of Railways, Research Designs and Standards Organisation (RDSO), Lucknow India is interested in empanelment of external laboratories having following facilities/equipment as per EN 45545-2 standards for testing of fire retardancy properties of coach furnishing materials:

S.N	Name of Test / Parameters	Standards as per EN 45545
1	Heat Release Rate (MARHE)	ISO 5660-1
2	Smoke Density (Ds , VOF ₄)	ISO 5659-2
3	Smoke Toxicity (CIT _G)	ISO 17084 Method 1
	Smoke Toxicity (CIT _{NLP})	ISO 17084 Method 2
4	Lateral Spread of flame (CFE)	ISO 5658-2
5	Radiant Panel (CHF)	ISO 9239-1
6	Oxygen Index (OI)	ISO 4589-2
7	Single-Flame Source Test	ISO 11925-2
8	Vertical Flame Test	ISO 60695-11-10

Laboratories interested in empanelment should have the following:

- Experience and capabilities in the above field along with necessary NABL accreditation.
- Testing Facilities/equipment for at least **Four Tests** of above table (S.No.1 and any three tests from S.No.2 to 8 above).
- Testing facilities/equipment should be available in India.
- Qualified, experienced and dedicated staff for above testing.
- ISO: 9001 Certificate.
- List of authentication by CERTIFER or other agency, if any.
- The laboratory shall provide plan/ timeline for acquiring remaining test facilities of EN-45545 as per above table.

For the above required fire testing facilities of the coach furnishing materials, Performa for response has been enclosed. The details are appearing on RDSO website.

Labs interested in empanelment in RDSO for above testing facilities as per EN 45545-2 are requested to see the details on RDSO website <http://www.rdsso.indianrailways.gov.in> at HOME PAGE under 'EOI' appearing in PURPLE.

The interested Laboratories are requested to submit details in the prescribed format attached herewith on or before **18/12/2023** to the address mentioned below.

Contact Address:

Jt. Director / Carriage(SS)
Room No: 14, Carriage Directorate, Annexe-I Building,
Research Designs & Standards Organisation (RDSO), Ministry of Railways,
Manak Nagar, Lucknow – 226 011, Uttar Pradesh, India
BSNL Ph. No. 0522 – 2465708, BSNL Fax No. 0522 – 2450679, 0522 – 2465708
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Enclosure: 1. Performa for response