

SCOPE OF WORK FOR FIRE BARRIER FOR THE FLOOR

“Fire barrier test of Train B-28 Floor structure 4 m x 3.2 m, as per EN 45545-3”

1. Vendor scope of work as per Annexure-1 Enclosed:

(Preparation of test protocol and approval from BEML/NHSRCL, carrying out the fire barrier test, preliminary test report and presentation of the tests and results to BEML/NHSRCL and submission of final test report)

2. Sources:

Only laboratories accredited as per EN 17025 to carry out the fire barrier tests as per EN 45545-3 can participate in this tender. The firms shall submit accreditation certificate along the technical offer

The laboratory must have carried out similar fire barrier tests as per EN 45545-3 in last 3 years. Supporting documents for the same shall be submitted along the technical offer

3. BEML Scope of work:

To provide the test specimens (4m x 3.2m floor structure) to the laboratory on non-returnable basis, as specimen cannot be reused in the car after the test.

Any other items deemed essential by the lab for the test, from BEML.

Transportation of the above specimen and items to the laboratory.

TRAIN B28 PROJECT: FIRE BARRIER TEST FOR THE FLOOR CONSTRUCTION OF TRAIN B28 CARS.

QUALIFICATION CRITERIA

1. Only laboratories accredited as per EN 17025 to carry out the fire resistance tests as per EN 45545 part-3 can participate in this tender. The firm shall submit accreditation certificate along with the technical offer.
2. The Laboratory must have carried out similar fire barrier tests as per EN 45545 Part-3 in the last 3 years Supporting documents for the same shall be submitted along with the technical offer.

SCOPE OF WORK FOR FIRE BARRIER FOR THE FLOOR.

1. The floors of this High-speed train projects is made up of a “Floating Floor” construction with floor cushion, floor insulation, floor board and floor cover. The floor is 181 mm thick between the Bogie bolster. The details of floor construction will be provided after the purchase order placement.

The laboratory shall submit a detailed test protocol covering the following, as a minimum.

- Objective of the test.
 - Ref. stds as per which tests will be carried out
 - Test equipment and the test conditions
 - Test specimen details as per EN 45545-3
 - Installation details of test specimen and details of instrumentation application.
 - Detailed test procedure
 - Performance criteria ☐ Test report format
2. The laboratory shall present the test protocol to BEML/NHSRCL and BEML fire safety consultant and obtain approval.
 3. The laboratory shall provide the size of test specimen details to BEML
 4. The laboratory shall carry out the test as per the approved test protocol. BEML will only provide the bare test specimen to the laboratory. All other items including the support construction to mount the specimen, test setup, test instrumentation and any other items deemed essential for successful execution of the test as per EN 45545-3 is to Laboratory scope. 5. BEML/NHSRCL officials will witness the test.
 6. Power point presentation to BEML & NHSRCL on the tests carried out and results obtained. Video of the test carried out shall also be submitted.
 7. Preparation of preliminary test report and presentation to BEML & NHSRCL and BEML fire safety consultant.
 8. Preparation and submission of Final test report based on incorporating BEML NHSRCL and BEML Fire safety consultant comments on preliminary report and obtaining approval.
 9. Laboratory shall be available for teleconference/video conference with BEML, NHSRCL and BEML Fire safety consultant as and when required till the approval of test report.