

Addendum to PTS GR/TD/4493 Rev.1 : GFRP Interior/Exterior panels

The following addendum to PTS document GR/TD/4493 Rev.1 for GFRP Interior/Exterior panels shall be considered.

1) Clause-3 :Qualification Criteria

Shall be read as

- (i) Subcontractor shall be an Original Equipment Manufacturer (OEM) of Prepreg type FRP Honeycomb sandwich/ semi-sandwich panels for Railway Metro Rolling stock Interiors and Exteriors, having experience in design, manufacturing and testing of such panels.
- (ii) The sub-contractor shall have manufactured and supplied Honeycomb sandwich/ semi-sandwich Prepreg type FRP panels and such supplies should have been in use and have established their satisfactory performance and reliability on at least three Mass Rapid Transit Systems in revenue service over a period of three years or more (in each MRTS) either outside the country of origin in three different countries or in an MRTS in India. Satisfactory Revenue service performance certificates for a period of 3 years or more from end users/ Metro Operators for the above shall be submitted along with the technical offer.
- (iii) The weight of FRP panels supplied above shall be minimum, with a max. of 4.3 kg/ sq.m for 2.3mm thick laminate and max. 3.5 kg/sq.m for 10 mm thick honeycomb sandwich panels.

In place of

- (i) Subcontractor shall be an Original Equipment Manufacturer (OEM) of NOMEX Honeycomb semi-sandwich GFRP panels with glass phenolic prepreg and NOMEX Honeycomb core, for Railway Metro Rolling stock Interiors and Exteriors, having experience in design, manufacturing and testing of such panels.
- (ii) The sub-contractor shall have manufactured and supplied NOMEX Honeycomb semi-sandwich GFRP panels with glass phenolic prepreg and such supplies should have been in use and have established their satisfactory performance and reliability on at least three Mass Rapid Transit Systems in revenue service over a period of three years or more (in each MRTS) either outside the country of origin in three different countries or in an MRTS in India. Satisfactory Revenue service performance certificates for a period of 3 years or more from end users/ Metro Operators for the above shall be submitted along with the technical offer.
- (iii) The maximum weight of GFRP panels shall be 4.3 kg/ sq.m maximum.

2) Clause- 8.2 : Weight

Shall be read as

The subcontractor shall submit estimated weights of each panels along with the technical offer.

Maximum weight permitted : 4.0 ±0.3 kg/sq.m for 2.3mm thick laminate & 3.2 ±0.3 kg/sq.m for 10mm thick honeycomb sandwich panel.

In place of

The subcontractor shall submit estimated weights of each panels along with the technical offer. Maximum weight permitted : 4.3 kg/sq.m.

3) Clause - 8.4 : Submission of samples

Shall be read as

The sub-contractor shall submit 3 no. samples of each raw panels and painted panels of size 500 mm x 500 mm each, meeting the technical requirements of this PTS, before FAI. The samples shall be representative of the GFRP panels to be supplied.

In place of

The sub-contractor shall submit 3 no. samples of size 500 mm x 500 mm along with the technical offer. The samples shall be representative of the GFRP panels to be supplier after award of contract.

4) Clause -11 : Submittals with Technical Offer

Point no.7: **Deleted.**