

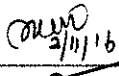
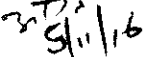
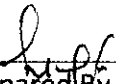


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Name	Designation	Signature	Date	Level
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Balwant Singh	SME/BD		02.11.2016	Agreed
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1. General:

This schedule describes the requirement of infrastructure and testing for Luggage Rack Module for LHB Chair Car Coaches.

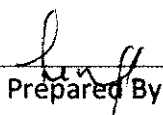
2. Eligibility Criteria:

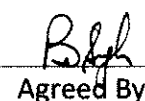
2.1. The manufacturer should have following infrastructure facilities in-house for manufacture and inspection of Luggage Rack Module for LHB Chair Car Coaches:

- 2.1.1. Separate covered area for manufacturing luggage racks to avoid other material contaminations.
- 2.1.2. Minimum 1 No of aluminum cutting circular saw machine.
- 2.1.3. Minimum 1 No. vertical machining center.
- 2.1.4. Minimum 1 No of band saw /power hacksaw machine.
- 2.1.5. Adequate machining facilities comprising of drilling, tapping etc.
- 2.1.6. Minimum 1 no of surface table of size 1meter X 2 meter.
- 2.1.7. Aluminum extrusion facilities or tie-up with OEM for procurement of aluminum extrusion along with test certificates as per drawing.
- 2.1.8. Aluminium casting facilities or tie-up with a firm having aluminum casting facilities along with test certificate as per drawing.
- 2.1.9. Powder coating facilities in-house or tie –up.
- 2.1.10. Minimum one no. digital weighing machine of minimum 20 kg capacity.
- 2.1.11. Procurements of polycarbonate sheet, rubber profile, glass sheet shall be from OEM or their authorized agent along with test certificates as per spec no. MDTs-070.
- 2.1.12. Adequate Nos. of hand grinders for removal of fins & burrs shall be available.
- 2.1.13. Adequate no of fine punches for stamping, marking particulars on finished components.
- 2.1.14. Adequate numbers of measuring instruments such as: digital Vernier Calipers - 0 mm to 300 mm, measuring scale –3 meter, inside & outside Micrometers - Ranging from 0 to 150 mm, Digital DFT meter.
- 2.2. The manufacturer shall be an ISO: 9001 certified company.

2.3 Testing Requirements:

- 2.3.1 **Chemical Lab:** The firm shall have its own in-house arrangement for spectro analysis or tie-up with NABL approved Lab.
- 2.3.2 **Physical Testing Lab:** The firm must process a well-equipped physical lab with following facilities in house or tie-up with NABL approved labs:


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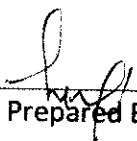
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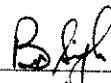
2.3.2.1 Universal testing machine of 40t capacity with load/deflection plotting arrangement to conduct UTS, Yield strength.

3 Identification Marking:

Each unit should have manufacturer's identification mark, serial number and date of manufacturing to facilitate identification/correlation with the inspection/ test result.

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