

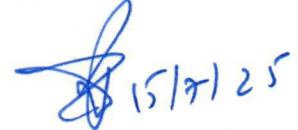
**Rail Coach Factory, Kapurthala**

MD35131

**Date:** 15.07.2025

**Sub:** Issue of MDST 186 Rev. 00 for Schedule of Technical Requirements for Set of Control Arm Support Left & Right (PL No. 33504520) for LHB bogie.

Please find enclosed copy of MDST 186 Rev. 00 for Schedule of Technical Requirements (STR) for Set of Control Arm Support Left & Right for LHB bogie for information and necessary action please.



Dy. CME/Bogie Design

CQM-I, CQM-II, CPLE, CWE/Fur, CWE/Shell, CMM/HSQ, CMM/TKJ

Dy. CMM/Fur/LHB, Dy. CMM/G, CMT, Dy. CPLE-I, Dy. CPLE-II, Dy. CPLE-III, Dy. CMM/Fur

SSE/Filing Section, SSE/Library, SSE/Records

**Copy for kind information to:**




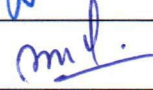
Dy. CME/VD

Dy. CME/FD

Dy. CME/shell Design

CDE

<b>Schedule of Technical Requirements</b> <b>For Set of Control Arm Support Left &amp; Right for LHB Bogie PL No. 33504520</b>		
<b>SPECIFICATION No. MDST 186 rev. 00</b>	<b>Date 04.07.2025</b>	<b>PAGE 1 OF 3</b>

<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>	<b>Level</b>
Dharmender Kr Ray	JE/BD		04.07.25	Prepared
Naib Singh Mehta	SSE/BD		04.07.25	Checked
Ritika Rashmi	Dy CME/BD		5.7.25	Agreed & Reviewed
Lalit Kishore	CDE		7.7.25	Approved

<b>Issue/REV.</b>	<b>Detail of changes</b>	<b>Date</b>
Nil	Nil	Nil

<b>Schedule of Technical Requirements</b> <b>For Set of Control Arm Support Left &amp; Right for LHB Bogie PL No. 33504520</b>		
<b>SPECIFICATION No. MDST 186 rev. 00</b>	<b>Date 04.07.2025</b>	<b>PAGE 2 OF 3</b>

## 1. Scope:

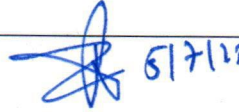
This specification defines the list of M&P required for manufacturing & list of testing facilities required for Set of Control Arm Support left (Drg. No. LW03247) & right (Drg. No. LW03246) to PL No. 33504520 for FIAT bogie frame.

## 2. List of M&P required for manufacturing:

2.1. The manufacture or tenderer who desired to develop set of control arm support for FIAT Bogie frames, must have following infrastructure facilities:

#	Description of Infrastructure	In-house/ Tie-up
i.	Covered area with adequate space underneath for storage of raw material e.g. billets round corner squares, rounds with proper colour coding etc.	In-house
ii.	Band Saw / Billet shearing machine/ pantograph type Plasma profile	
iii.	Furnace for heating the round bars/billets etc.	
iv.	At least one drop hammers with minimum capacity of 3 Ton or double acting pneumatic hammers / forging press of equivalent capacity along with at least 1 nos. of trimming press of minimum capacity of 3000 kgs. for removal of flash etc.	
v.	Heat Treatment Furnace with temp. controller	
vi.	CNC Machining centre of suitable capacity	
vii.	Hand Grinder	
viii.	Shot/Grit blasting facilities	
ix.	Primer / Painting facility	
x.	Compressor with 5HP Blower	
xi.	Fork Lifter or Over Head Crane of capacity min. 1 ton for material handling.	
xii.	Levelled surface plate of size 600 mm X 600 mm min.	

  
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Schedule of Technical Requirements		
For Set of Control Arm Support Left & Right for LHB Bogie PL No. 33504520		
SPECIFICATION No. MDST 186 rev. 00	Date 04.07.2025	PAGE 3 OF 3

**3. List of testing facilities required:**

#	Description of Infrastructure	In-house/ Tie-up
i.	Vernier calliper of range 0-600 mm	In-house
ii.	Vernier Height Gauge 0-600mm	
iii.	Set of Radius gauge, Surface finish comparators	
iv.	DFT meter	
v.	Metallurgical microscope of standard make having 400X magnification and with photographic attachment	
vi.	Spectrometer for chemical analysis	
vii.	Magnetic particle testing machine (wet method) with ultra violet light facility. The bed of machine should be of adequate length to accommodate the full length of component. The magnetizing current capacity should be appropriate to component/work piece.	
viii.	Ultrasonic testing facility with accessories should be available	
ix.	Universal Testing machine of 40t capacity with load/deflection plotting arrangement to conduct UTS, Yield strength.	In-house OR Tie-up with NABL Lab
x.	Impact testing machine to conduct Charpy test of suitable capacity	
xi.	BHN testing machine with necessary standard test pieces. The hardness testing machine shall have capacity to apply 3000 Kgs load on one test specimen	

4. The manufacturer shall be an ISO-9001:2015 certified company.

5. **Raw material:** Raw material should be procured complying with specification & requirements mentioned in drawing.

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