
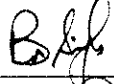
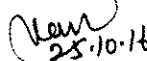
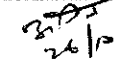



Specification No MDST-157 Rev-Nil	Schedule of Infrastructural Requirements for Wearing Piece of Conventional Bogie	Date: 25.10.2016 Page 1 OF 2
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Name	Designation	Signature	Date	Level
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1. General:

This specification covers the infrastructure requirements for Phosphor Bronze casting and machining/ finishing of wearing piece for conventional bogie.

2. Eligibility Criteria:

2.1. The tenderer must submit clause-wise comments on the specification. In absence of clause-wise comments, offers shall be deemed as incomplete and may not be considered.

2.2. The manufacturer should have following in-house infrastructure facilities for manufacture and inspection of wearing piece:

2.2.1. The Manufacturer should have sufficient covered area for manufacturing and raw material storage

2.2.2. General Requirement for casting:

2.2.2.1. At least one number Furnace

2.2.2.2. Measuring instruments like Spherometer of suitable size to measure radius, Vernier calipers 0 mm to 200.

2.2.2.3. Level surface table of size 500x500 mm.

2.2.3. Machining of Castings: The manufacturer should have at least one machining center of suitable capacity for machining of wearing piece.

2.2.4. Finishing of Castings: Firm should have machinery to carryout finishing/ grinding operation.

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 possess a well-equipped physical lab with following facilities in house or tie-up with NABL approved labs:

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

2.3.2.2. Brinell Hardness tester

2.4. The manufacturer shall be an ISO: 9001 certified company.

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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