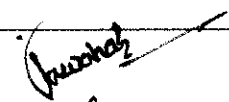
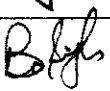
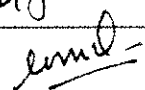
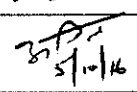


2367/1

**Schedule of Infrastructure Requirements
For manufacturing and Testing of Brake Head Assembly
(LH & RH) for Conventional Bogie**

Specification No. MDST-150, Rev-'00'	Date: 05.10.16	Page 1 OF 3
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**Schedule of Infrastructure Requirements For
manufacturing and Testing of Brake Head
Assembly (LH & RH) for Conventional Bogie**

Name	Designation	Signature	Date	Level
Jawahar Lal	SSE/BD		05.10.16	Prepared
Balwant Singh	SME/BD		05.10.16	Agreed
Lalit Kishore	Dy CME/D-1		05.10.16	Reviewed
A.K.Kathpal	CDE		05.10.16	Approved


PREPARED BY


AGREED BY

**Schedule of Infrastructure Requirements
For manufacturing and Testing of Brake Head Assembly
(LH & RH) for Conventional Bogie**

Specification No. MDST-150, Rev-'00'

Date: 05.10.16

Page 2 OF 3

1. General:

This specification defines the schedule of requirement of infrastructure for manufacturing and testing of brake head assembly (LH & RH) for Conventional Bogie.

2. Eligibility Criteria:

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

2.2. The manufacturer shall have following infrastructure facility in-house for manufacturer of Brake Head Assembly (LH & RH) for Conventional Bogie :

- 2.2.1. Plasma or Oxy-Acetylene cutting machine with suitable capacity
- 2.2.2. Boring Machine
- 2.2.3. Press brake of suitable capacity
- 2.2.4. Shot /Garnet blasting facility
- 2.2.5. Primer / Painting facility
- 2.2.6. Minimum two MAG welding sets (400A or more) & suitable shielding media
- 2.2.7. Level surface table of size 500mm X 500mm (minimum)
- 2.2.8. Vertical Load Testing Machine for carrying out 4 ton load test
- 2.2.9. Vernier caliper of suitable size
- 2.2.10. Welding Gauge
- 2.2.11. Dial Bore Gauge (accuracy 1 micron)

2.3. The manufacturer shall have in house or tie-up arrangement for following tests with NABL certified labs:

2.3.1. The firm shall be ready for carrying out chemical and mechanical test of the Brake Head assembly (LH & RH), from NABL certified Lab at their own expense as and when required.

2.4. The manufacturer shall be an ISO-9001-2000 certified company.

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2367/3

Schedule of Infrastructure Requirements For manufacturing and Testing of Brake Head Assembly (LH & RH) for Conventional Bogie		
Specification No. MDST-150, Rev-'00'	Date: 05.10.16	Page 3 OF 3

3. Raw material:

- 3.1. Chemical composition and mechanical properties of raw material to be used shall conform to specification mentioned in the drawings.
- 3.2. Firm may procure MS plates from reputed vendors. Record of chemical and mechanical properties of raw material should be kept and made available to Inspecting Agency if required.

4. Welding:

- 4.1. Firm should have certified welder from accredited labs/ RDSO for precision & heavy fabrication.
- 4.2. The firm shall comply with IS: 822 regarding selection of weld wire, storage of consumables, calibration of welding equipment, testing of welding and remedies for welding defects.

5. Shot/Garnet Blasting:

After proper masking of machined surface, the complete Brake Head assembly shall be subjected to shot blasting for cleaning of rust, scales, spatters etc. before painting of component.

6. Primer / Painting:

Firm shall have separate painting booth with suitable exhaust for application of Red-Oxide primer to IS: 2074 and black enamel paint to IS: 2932.

7. Identification Marking:

Each item shall be stamped with an easily visible firm's identification mark, serial number, date of manufacture to facilitate identification/correlation with the inspection/ test results.

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PREPARED BY *Daucher*

AGREED BY *Bsh*