



BHARAT HEAVY ELECTRICALS LIMITED, JHANSI
PURCHASE SPECIFICATION FOR LOAD TESTING OF FABRICATED STRUCTURES
FOR SPECIAL 280T WAGON
SPECIFICATION NO. BHE/JHS/LMP/0708/35048T/WAGON-280T Testing

1.	Main bridge	-Drg No.17250003001	2 Nos
2.	Intermediate Bridge-(Outer)	-Drg No. 17250003002	2 Nos
3.	Intermediate Bridge-(Inner)	-Drg No. 17250003003	2 Nos
4.	Bolster	-Drg No. 17250003000	2 Nos
5.	Frame Assembly- Bogie	-Drg No. 07250003000	8 Nos

ISSUED BY:
LOCOMOTIVE PRODUCTION PLANNING AND CONTROL DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED, JHANSI
JHANSI-284129

March 1st, 2008

**A) Requirement for technical qualification**

- i. Party should have the experience and suitable expertise for executing the similar load test activities.
- ii. Party should have experience of dealing with RDSO.
- iii. Party should have executed similar order in recent past Ten years.
- iv. Party should have the facility for application of static loads for continuous 18 hrs along with the suitable supports.
- v. Party should have all the required measuring instruments for measurement of applied load and reflection.
- vi. Party may be assessed by BHEL/RDSO for its competencies at their works.

B) Scope of Work

This specification covers the particular requirement for load testing of the following fabricated structures of 280T special Wagon.

<u>Descriptions</u>	<u>Drg No</u>	<u>Qty</u>
1. Main bridge	-Drg No.17250003001	2 Nos
2. Intermediate Bridge-(Outer)	-Drg No. 17250003002	2 Nos
3. Intermediate Bridge-(Inner)	-Drg No. 17250003003	2 Nos
4. Bolster	-Drg No. 17250003000	2 Nos
5. Frame Assembly- Bogie	-Drg No. 07250003000	8 Nos

- i. The supplier is expected to perform the load testing on the fabricated structures listed above as per the load test procedures enclosed in annexure I
- ii. The structures shall be issued to the supplier free of cost by BHEL, against the appropriate Bank guarantee to be submitted.
- iii. Rectification if required after the load testing shall be arranged by BHEL
- iv. The required jigs fixtures/instrumentations etc shall be in the scope of supply.
- v. BHEL/RDSO may witness the test.

C) Delivery

The expected delivery is one month after the supply of free issue items.

D) Rates

Rates should be coated in “Rs per unit” for each item separately.

The required charges for witness of testing may be indicated separately.



Annexure I

TABLE I **Load Test Procedure**

S.	Structure to be load tested	Type of load	Method of load distribution	Load to be applied in requirement (Tonne)	Drawing No. for load testing.
(1)	(2)	(3)	(4)	(5)	(6)
1.	Main Bridge	Distributed load on center pivot	Load to be applied on top pivot	1. 0t- 2. 100t-(for 2 hrs) 3. 135t-(for 2 hrs) 4. 170t-(for 2 hrs) 5. 205t-(for 2 hrs) 6. 220t-(for 18 hrs)	17250003001
2.	Intermediate Bridge(outer)	-do-	-do-	1. 0t- 2. 55-(for 2 hrs) 3. 75t-(for 2 hrs) 4. 95t-(for 2 hrs) 5. 115t-(for 2 hrs) 6. 125t-(for 18 hrs)	17250003002
3.	Intermediate Bridge(inner)	-do-	-do-	-do-	17250003003
4.	Bolster	-do-	-do-	1. 0t- 2. 150t 3. 175t 4. 210t	17250003000
5.	Frame Assembly- Bogie	distributed load on center pivot	Load to be applied on top pivot	1. 0t- 2. 52t 3. 75t 4. 85t	07250003000









