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No.: 11000001834/MM-7/Corrigendum/622

Date: 12-02-2021

Corrigendum
Change in Technical

Sub.: Corrigendum for Change in Technical

Ref.: No.: 1100001834/MM-7/IITR/2020-21/Shock Tunnel/MIED/296

Dated:- 25-Jan-2021

In above mentioned tender no., some changes have been made in the Technical Specifications (Annexure-V) as per Annexure-A.

The Changed/Revised Specifications in respect of the items (Annexure-A) may be downloaded from the CPP Portal & Institute website.

All other things will remain same.

***Deputy Registrar/Assistant Registrar**
Material Management, IIT ROORKEE

Final Specifications

1. A multipurpose shock tube for studying Aerodynamics, Structural dynamics, Chemical kinetics and combustion under various pressure and Mach number regime.
2. Material of construction: SS 304
3. Internal diameter: 80-120 mm
4. External diameter: 100-150 mm
5. Overall length: 9-12 m. Modular design: Pipe lengths: will be varied to generate different pulse decay times.
6. Pipe connections: Flange type.
7. Maximum working pressure: 100 bar with driven section pressure ranging from 100 pa to 500 kPa
8. Diaphragm type: Aluminum with suitable grooving: 100 numbers of various thickness 2mm, 3mm etc. as well as Mylar diaphragms
9. Expander piece from 80 mm ID to larger size (300 mm) to study impact on object of size > 200 mm and test section with BK7 glass window for DIC.
10. Components and provision to do ignition delay experiment: ball valve of matching size etc.
11. Extension piece and test section for spectroscopic measurements with internal lining of Delrin for rarefied chemical kinetics and spectroscopy. Appropriate window for signal must be provided.
12. Vacuum pump for driven section. 100 – 150 lpm to achieve pressure in the driven section ≤ 100 pa.
13. CD nozzle and test section for doing supersonic aerodynamic studies on various objects. The test section must be 80 – 150 mm with Mach number 2-3. BF7 window for imaging.
14. Helium and N2 gas cylinder for operation.
15. Mounting stands as necessary.
16. Pressure monitors: 2 nos. (one each on driver and driven sides to set initial pressures)
17. Dynamic pressure sensors: 2 nos. minimum Make: PCB Piezotronics.
18. Ports for thermocouples
19. Two channel oscilloscope. Price with both should be quoted
20. Pipe and hose connections as necessary.
21. Installation and Training