

**Department of Mechanical Engineering  
Delhi Technological University  
Shahbad Dualatpur, Bawana Road, Delhi - 110042**

No. DTU/MED/HOD/2023/1318

Dated: 31/01/2024

**NOTICE INVITING QUOTATION**

On behalf of Delhi Technological University, Department of Mechanical Engineering invites a quotation for the procurement of an **Nozzle Pressure Distribution Test Rig Apparatus**.

Sealed quotation (mentioning on top of envelop as F.NO. DTU/MED/HOD/2023/1318) should be sent to the following address at the latest by 20/02/2024:

**The HOD,  
Department of Mechanical Engineering ,  
Delhi Technological University,  
Bawana Road, Delhi 110042**

The quotations should be on the company's letterhead including GSTIN No. with reference no. as F.NO. DTU/MED/HOD/2023/1318.

The rate should be quoted and GST should be indicated separately as per the prevailing GST Laws in Indian National rupees (INR) and also mention the total amount in the words.

The technical specifications and details of the **Nozzle Pressure Distribution Test Rig Apparatus** are provided in the following table:


Sl. No.	Items/ Specifications	Quantity
1.	<b>Nozzle Pressure Distribution Test Rig Apparatus</b> Convergent - Divergent Nozzle: 12.5 to 15.5 cm Length, area ratio corresponding to Mach 1.5 to 2.5, exit diameter of 0.5 to 1 cm Nozzle consisting of 7 pressure tappings. One tapping is precisely located at the throat. All the pressure tappings are connected to a Digital Pressure Indicator with a range of 0-20 bar. Maximum Inlet pressure to nozzle: 10 to 12 bar. Reciprocating Air Compressor need to be supplied along with the test rig (Made in India): Air is supplied through single cylinder piston reciprocating air compressor of 1 to 2 HP capacity, maximum pumping pressure of 10 to 12 bar, compressor reservoir 40 to 50 litres. The compressor need to fill the reservoir with 10 bar pressure in 6 - 8 minutes. The flow is released to nozzle through 2.54cm diameter pipe by operating a valve. An automatic safety switch needed to monitor the pressure inside the cylinder. Measurements needed: Static Pressure and total pressure, velocity, temperature indicator at inlet and outlet, Static pressures along length of nozzle. The entire facility must be on the MS table with reading panel with instrumentation and electrical safety.	1

**Terms & conditions of the NIQ**

1. The quoted Price should be inclusive of applicable GST
2. Product supplied must be of good quality.
3. A data-sheet and manual of the above-said items should be provided.

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4. Details of service center declaration should be provided for the items.
5. Warranty of the item should be a minimum of one year.
6. Mode of payment would be subject to the satisfactory completion of delivery to Power Plant Engg. Lab, DTU and working demonstration of apparatus by expert personal of supplier.
7. Delivery and successfully working demonstration of apparatus by supplier technical experts in Power Plant Engg. Lab, DTU, Delhi.

K.M. 

Dr. Manjunath K.  
Officer In-charge  
Power Plant Engg. Lab

Copy to:

1. Sr. Account Officer, DTU
2. HOD, (CC) request to upload on DTU website
3. Notice Board, MED