

**Revised Specification for Supply, Delivery, Installation and Commissioning of**  
**Central Air Conditioning System – SUP/SD/25/137**

Repair and commissioning of central AC system to maintain the constant temperature inside the laboratories to 20 °C and 23 °C to the accuracy within  $\pm 1$  °C and Relative humidity level RH  $50 \pm 10\%$  in accordance with the specifications detailed below. Provision for site inspection of the existing AC system is available.

Item no	Item	Description
1	Replacement of 4 chiller units (similar to existing units).	Per unit cooling capacity: minimum of 168500 btu/hr Refrigerant: CFC free Power Supply: 3-Phase, voltage 415 V, 50 Hz including all construction work to install the units
2	Replacement of insulation of the chilled water line.  Measure and pay basis	Chilled water line dimensions: pipe length around 100' and diameter 2.5"  The insulation material shall either match the existing insulation material in use or, if a new material is proposed, the minimum of following details must be provided: Type, Operating Temperature Range, Expected Service Life (minimum lifetime under recommended conditions).
3	Replacement of two numbers water pumps	Motor: 3 hp , Pipe size: diameter 2" x 2", Capacity 175 gpm Supply: 3 ph. 415 V, Total head 30 ft
4	Replacement of complete control panel compatible to the outdoor unit	Specify the detail of panel that inclusive of: 1. panel layout 2. models, manufacturer, warranty and manuals of devices, 3. Availability of spares

<b>5</b>	Warranty	Required at least two-year warranty for all replaced parts
<b>6</b>	catalogs, certificates and schematic diagram of each component of repair/replace	
<b>7</b>	Provide a time plan for the repair,	Need to complete the repair within one month from date of start.
<b>8</b>	two test runs to verify proper system functionality.	Provide commissioning report after test run
<b>9</b>	After sale service	Provide annual service schedule with price for five years
<b>Optional item ( purchase only if required)</b>		
<b>10</b>	Replacement of indoor unit compatible to the outdoor unit described above	To the capacity of 18000 BTU /hr. compatible to existing system  provide unit price with fixing charges

Bids( **SUP-SD-25-137**) will be opened at **10.00 a.m on 24.07.2025** in the presence of the bidders or their authorized representatives at the **Industrial Technology Institute, No. 503A, Halbarawa Gardens, Thalahena, Malabe** immediately after the closing of the bids.