



Ref No. INST/12(3)/2020-Pur

Date: 19/06/2020

CORRIGENDUM

Reference to NIT no. INST/12(3)/2020-Pur published in national newspapers for purchase of equipment: 10000 Class Cleanroom with Air Shower, Scrubber, Gaslines and Fume Hood. Below mentioned technical points may be read and corrected as per following:-

In reference to the Pre-bid Queries, please find the details as asked in queries.

1. Layout of lab is attached. The vendor may visit the site for evaluation
2. Make of materials to be used in lab.
Electricity Havells/ Finolex/ Schneider/ Hager/ Legrand/ Wipro/ Phillips or equivalent.
For Chiller or ODU Diakin/ Carrier/ Bluestar or equivalent.
Blower motor Kruger or equivalent.
For other items also the materials from reputed brand should be used.

There will be 30 KVA 3 Phase connections (1 No.); -----instead of 20 KVA 3 Phase connections (1 No.), All the connections and switches should be in industrial grade. The wires in 5/15 Amp connections should be at least 4 mm colour coded wires.

The existing room under which the cleanroom is going to be designed has floor to roof height of 4770 mm and floor to beam height of 4320 mm.

The PUF panel thickness should be 80mm minimum with minimum 0.6mm skin thickness. The panel should be sealed from all six sides. There should not be any exposed PUF from any side. The panels should be joined using GI tube. The ceiling height in lab is 2500mm .We need walk able ceiling. The return of air is through riser panels only. The vendor can design the supply and return route according to his plan. The drawings should be submitted for approval before execution of work.

One AHU for complete lab with 4500CFM capacity with positive air pressure as mentioned in layout. HVAC system should have minimum 9 HEPA filters complete with ducting, Dampers, housing etc. Institute will not provide anything other than space. Everything needs to be provided by vendor. We need maximum 50-55% humidity. If required please add dehumidifier. Minimum 15% fresh air to be added in each cycle. The material of dampers can be of Aluminum or GI.

- 2 portable fire extinguishers to be supplied.
- Eye shower needs to be supplied
- 2 No. of intercom lines, 1 in lab and 1 in change room 1 needs to be provided.

Fiber canopy should be installed over the ceiling of utility room

The Gas system needed is for following gases.



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Argon, Nitrogen, O₂ and CDA.

SS316L with both inside and outside electro-polished. Approx. 50 feet for each gas.

Stainless Steel 316L Point of Use Regulator with Shut off Valve: Make : Gas-Arc, UK / GCE-GmbH / Rotarex-France or any other Imported Make

Electro-polished Stainless Steel 316L Branching Tee: Make - Valex- USA / Dockweiler - Germany / Crest - Korea / Other Imported Make

Electro-polished Stainless Steel 316L Tubing: Make - Valex- USA / Dockweiler-Germany / Crest - Korea / Other Imported Make

Stainless Steel Tube Fittings for Gas Manifold / Point of Use Regulator Etc. : Make Swagelok-USA or Parkar - UK or Unilok-Korea or Other Imported Make

Installation, Orbital Welding, Helium Leak Testing and Commissioning of Gases should be quoted separately.

Any other items required for gas distribution system with make equivalent to the company mentioned above should be provided. Please mention the quantity of items to be supplied.

The Fume hood size is of 3-feet x 4-feet. The flow rate of fume hood should be 0.3 m/s. Compatible remote blower and scrubber with ducting as mentioned in specifications should be provided.

The institute at present has not BMS. The lab is standalone facility. Please quote as per your system if required.

The lab should be completed in 3 months as we need to install the equipments.

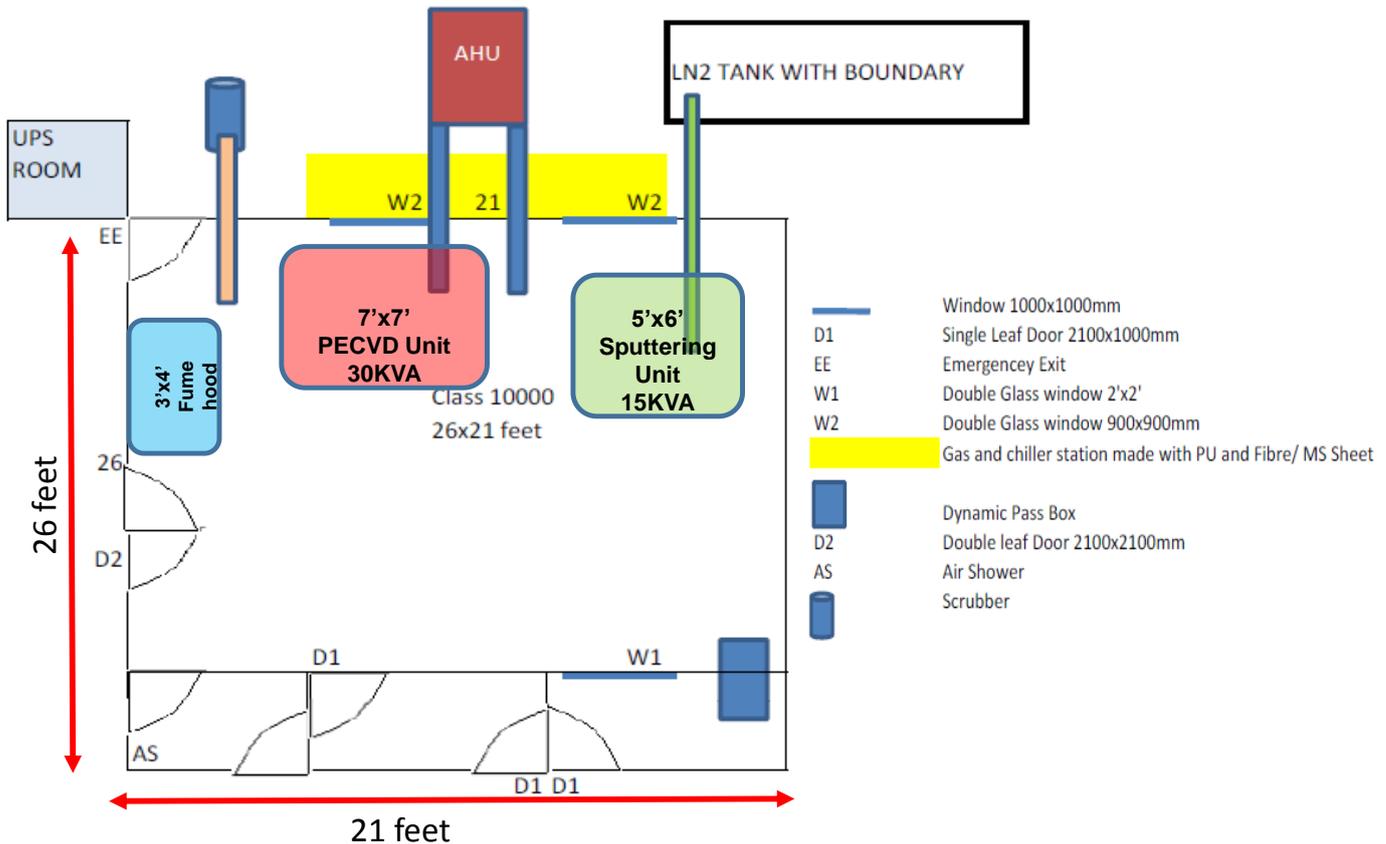
The vendor may quote 5KVA 3 phase UPS with 30 min. back up optionally

Vendor should mention the quantity of items like panels, HEPA-filter, damper, doors windows etc in their quotation.

Optional item:

The company should quote 20 KVA 3 Phase UPS with 30 mins backup complete with all accessories, installation and connection to the lab.

Tentative lab design:



Commercial clarification:

Taxation: Bidder should quote basic cost and GST separately in their bid. GST exemption certificate will be issued as per GOI rules.

Time for completion of work: 3 Months from the date of confirmed work order/purchase order as the Institute is on rented building and shifting as soon as possible.

Other specifications and terms & conditions remains the same.

Sd/-
Head of Office