

# THAPAR INSTITUTE

## OF ENGINEERING & TECHNOLOGY

(Deemed-to-be-University u/s 3 of the UGC Act.,1956)

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Enquiry No. TIET/CS/AG/18-19/18469

Date: January 15, 2019

**Sub:** Request for Quotation(s) for the supply of **BIO-Safety Cabinet**

Dear Sir

We shall be grateful if you kindly let us have your lowest quotations for the following materials. THE QUOTATIONS SHOULD REACH THE UNDERSIGNED LATEST BY 22.01.2019 through courier or e-mail accompanied by appropriate illustrative literature/catalogues/pamphlets/technical details, samples and specifications as the case may be. On the quotation envelope/ subject the Enquiry Number & Date should be mentioned on the top of the Envelope/mail subject.

Sr. No.	Item Name	Qty.
1.	Bio-Safety Cabinet  Specificatoin Sheet Attached: Note: Kindly send the technical & commercial quotes separately. Single quote will not be entertained.	1 Nos.

The offer sent by you must furnish the following details:

1. Name, Make & specifications of each item.
2. Cost of the item with MRP.( Treat it mandatory)
3. Educational discount if any.
4. Validity of quotation should be at least 60 Days.
5. GST %.
6. Delivery FOR TIET, Patiala
7. Insurance, Freight & other charges if any.
8. Minimum Delivery Period.
9. Payment terms. Net 60 days against delivery & satisfactory installation at Thapar Inst of Engg & Tech.
10. Guarantee / Warranty Information.
11. Also please share your Companies Turnover and Market Share along with the ofer.

Regards,

Sd/-

Head Commercial

## Technical Specifications for Biosafety Cabinet

<b>Safety class and Size</b>	<ul style="list-style-type: none"> <li>• Bio-safety cabinet Class II, type A2, Open-front, ventilated cabinet in ergonomic design, vertical type</li> <li>• Size: 4 feet</li> </ul>
<b>External Dimensions with Base Stand (W×D×H):</b>	1023×771×2255 mm
<b>Internal Work Area, Dimensions(W×D×H):</b>	900×600×678 mm
<b>Internal Work Area, Space:</b>	0.54 m <sup>2</sup> or better
<b>Air inflow velocity:</b>	0.53 m/s or better
<b>Air downflow velocity :</b>	0.35 m/s or better
<b>Filter Typical Efficiency:</b>	<ul style="list-style-type: none"> <li>• ULPA/HEPA Filter with ≥99.999% efficiency (CLASS 100) of &lt;0.3 micron particles</li> <li>• re-circulated mass airflow within the work space</li> <li>• Exhaust air from the cabinet is also filtered by ULPA/HEPA filters</li> </ul>
<b>Heat and Sound Emission)</b>	<ul style="list-style-type: none"> <li>• Low noise (&lt; 62 db), Low energy consumption and heat output</li> <li>• The presence of audible and visual alarms will be preferred.</li> </ul>
<b>Fluorescent Light Intensity</b>	Approx. 1200 Lux or better
<b>Main Body:</b>	<ul style="list-style-type: none"> <li>• Cabinet must be made up of a minimum thickness of 1.2 mm stainless steel or better</li> <li>• In addition, the working zone should also be of a minimum 1.5 mm stainless steel with no welded joint</li> <li>• Side walls-electro galvanized 1.5 mm stainless steel having with antimicrobial coating</li> <li>• The entire cabinet system must have support stand with interlocking system in wheels.</li> </ul>
<b>UV light decontamination</b>	Standard UV light along with programmable UV light timer, additional UV-interlocking safety system
<b>Instrumentation &amp; control</b>	Microprocessor controlled functions with LCD display
<b>Electric supply requirements</b>	<ul style="list-style-type: none"> <li>• 220-240V AC/50Hz</li> <li>• Cabinet full load Amp: 2A</li> <li>• Cabinet nominal power: 361W or better</li> </ul>
<b>Warranty</b>	A minimum of 2 years from date of installation

<b>Certifications</b>	NSF/ANSI-49/ETL/CE/FDA certification
<b>Safety Validation during on-site installation</b>	<ul style="list-style-type: none"> <li>• The validation of Comprehensive Performance Testing at the manufactures site with full documentation at the time of installation.</li> <li>• Validation of the operator/end user protection capabilities</li> <li>• Troubleshooting of the system</li> </ul>

In addition to above, following information is required

- a. **“Letter of authorization”** from Principals (Parent Company) showing **local service support, installation and warranty services**
- b. List of Users for the past two years supplying to premiere organization including IITs, IISERs/NISERs, Universities/CSIR labs.