

Our Fax No. 022 2826 2057

Our Ref : WROL/ 2 : 47

Subject : Laminar Flow Clean Air Work Station, Vertical

Mumbai,  
2006 05 03

To,

Manufacturers & Suppliers of **Laminar Flow Clean Air Work Station, Vertical**

Dear Sirs,

Quotations are invited in duplicate for the supply of **Laminar Flow Clean Air Work Station, Vertical, 1 No.**, with Technical Specification mentioned in the **Schedule** attached hereto and as per terms and conditions noted hereunder:

1. Quotations in a sealed cover superscripted “**Supply of Laminar Flow Clean Air Work Station, Vertical, as per the enclosed schedule**” should reach the undersigned latest **by 1500 h on 30 May 2006** and the same shall be opened at 1530 h on the same day in the presence of such tenders or their duly authorized representative who may like to attend.
2. Unless stated otherwise, quotations shall be deemed to be for delivery at ‘MANAKALAYA’ E-9 MIDC, Andheri (E) , Mumbai 400 093 .
3. The Bureau gives first preference in its purchases to goods bearing BIS Standard Mark and second preference to those which conform to the relevant Indian Standard Specification
4. Supply should be arranged within 30 days of receipt of order. If, however, it is not possible for you to effect delivery during working hours by that date, you should specify the date by which you can guarantee delivery. Quotations qualified by such vague and indefinite expressions as ‘subject to immediate acceptance’, ‘subject to prior sale’, etc and incomplete quotations are liable to be summarily rejected.
5. All quotations shall remain open for acceptance for a period of 60 days from the date of opening of quotations specified in Para 1 above.
6. The rate quoted shall include all charges such as packing and forwarding, freight, insurance etc. If the rates quoted do not include Excise duty, Sales Tax, Octroi or any other taxes or charges, the same should be specifically stated. In the absence of any such stipulations, it will be presumed that the prices include all such charges and taxes and no claim for the same shall be entertained.

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7. All goods shall be received subject to approval on inspection. The decision of our Inspecting Officer shall be final and binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and no liability whatsoever on the Bureau shall be attached for rejected/disapproved goods/items/stores.
8. The Bureau reserves the right of accepting the whole or any part of the quotations(s) or portion of the quantity offered and the successful tenderer shall supply the same at the rate quoted.
9. The Bureau reserves the right to accept or reject summarily any or all quotations(s) in whole or in part without assigning any reason whatsoever.
10. The Bureau takes no responsibility for delay, loss or non-receipt of quotations after dispatch.
11. In case of non-compliance with the contract, the Bureau reserves its right to:
  - a) Cancel/rescind/revoke the order and
  - b) Impose penalty up to 5 percent of the value of the order.
12. Payment will be made only after approval of the material.

Yours faithfully,

(P.K.Shilotri)  
Sc 'F' & Head WRO Lab  
Bureau of Indian Standards  
Manakalaya,  
E-9, M.I.D.C., Road No. 8,  
Andheri (East)  
MUMBAI 400 093

Encl : Schedule

## SCHEDULE

### Technical Specification

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#### Dimensions

	Work Area	Overall
Length :-	1220 mm approx	1325 mm approx
Depth :-	610 mm approx	700 mm approx
Height :-	610 mm approx	2250 mm approx

Weight of Equipment : 160 kg to 180 kg

#### Material of Construction :-

Cabinet : S.S. 304, Side Panels : Float glass or S.S. 304, Work Table : S.S. 304,  
Work Table Top : S.S. 304 Satin finish,  
Pre Filter Grill: S.S. 304, Terminal Filter Grill : S.S. 304  
Front Panel : Sliding shutter panel in Plexi glass or Transparent Acrylic Sheet with  
Manometer to check pressure drop across the filters

#### Filter details :

##### Pre Filter :

Media :- Washable, Size :- 5 Microns, min, Filter efficiency :- 90 %,  
Casing material :- S.S. 304

##### Terminal Filter : HEPA Filter

Media :- Micro glass fibre,  
Efficiency down to particle :- 99.97%, Size:- 0.3 microns  
Casing material :- S.S. 304

#### Motor blower details :

Blower type :- Centrifugal, Size :- Diameter – 200 mm approx, Width – 100 mm, min  
Motor type :- Drip proof motor, H.P:- ¼ H.P min, R.P.M.: 1400,  
Supply Volts: - 230 V, AC , No. of phases :- Single, Frequency:- 50 Hz

## SCHEDULE

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Electric Supply Input Required :- 230 V, AC, Single phase, 50 Hz,  
Connected load:- 0.25 kW, Maximum Continuous Load :- 0.25 kW

#### Lighting Details :

- a) Light intensity on work surface, average, 100 Decalux
- b) Fluorescent tube lights :- Two, Watts / tube:- 40,
- c) Tube light colour :- White
- d) Ultra violet tube light :
  - i) Watts / tube :- 30 to 40 W, ii) No. of tubes :- One

#### Work Table :

- a) Vibration free :- yes
- b) Air velocity :- 0.45 meters / second (approx)

#### Details of Electrical Points Available on Unit :

- a) Blower motor switch :- one number,
- b) Fluorescent tube light ON / OFF Switch :- one number
- c) Switch Sockets :
  - 5 A :- one number
  - 5 A /15 A :- one number

Auxiliary Supplies and Connection :- Cocks for Water and LPG Gas Connection

Salient Features : State of the Art “Vertical Laminar Flow Clean Air Work Station”

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Note : The supplier will be required to effect door delivery at Microbiological Lab at 2<sup>nd</sup> Floor ,  
install, commission and demonstrate working of the unit.