



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306  
**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI**  
(Established by Ministry of Education, Govt. of India)  
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab  
PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

• Phone : +91-172- 2240121 • Fax : +91-172-2240124 • <http://www.iisermohali.ac.in> • Email: [stores@iisermohali.ac.in](mailto:stores@iisermohali.ac.in)

CPPP/Institute Website

IISERM (1448)20/21-Pur

Dated: 19<sup>th</sup> March 2021

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of Lab Furniture** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i. e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app&> Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in).

-sd-

Assistant Registrar (P&S)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI  
(Established by Ministry of Education, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab  
PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

• Phone : +91-172-2240121 • Fax : +91-172-2240124 • <http://www.iisermohali.ac.in> • Email: [stores@iisermohali.ac.in](mailto:stores@iisermohali.ac.in)

## E-TENDER NOTICE

Tender Ref.- IISERM(1448)20/21-Pur	Dated :-19 <sup>th</sup> March 2021
------------------------------------	-------------------------------------

### Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	19 <sup>th</sup> March 2021	6:00pm
2.	Tender Document download start Date & Time	19 <sup>th</sup> March 2021	6:00pm
3.	Bid Submission start Date & Time	19 <sup>th</sup> March 2021	6:00pm
4.	Bid Submission End date and Time	12 <sup>th</sup> April 2021	Upto 11:00am
5.	Tender opening Date and Time	13 <sup>th</sup> April 2021	At 11:30am

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in). Tender fee in shape of DD/Banker Cheque of Rs 590/- (Non-refundable) and EMD of Rs.38,000/- should be submitted by DD /Banker Cheque/FDR/ Bank Guarantee in favour of the Registrar, IISER Mohali payable at Mohali or through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790). However, scanned copy of the both tender fee and EMD should be upload on website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summarily. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee/EMD as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.**

**MSME/NSIC bidders are exempted from payment of Tender Fee/EMD as per GOI notifications/GFR (2017). Bidders will also be required to execute bond/undertaking Bid Security Declaration Form attached as ANNEXURE-I for availing exemption to submit EMD.**

### **The Original EMD and Tender Fee should be sent to:**

Assistant Registrar (P&S)  
Indian Institute of Science Education and Research Mohali  
Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab,  
India, Pin: 140306

**Non-receipt of original EMD and Tender Fee will lead to rejection of tender.**

## ITEM WISE DETAILS

<b>Sr.</b>	<b>Description</b>	<b>Qty. (in units)</b>
1.	<b><u>Wall side work bench</u></b> of size 1830mm L x 750mm W x 900mm H having granite top and one shutter and drawer, reagent rack, cable trunking, 5/15 switch/socket at every 2' distance and wiring with 6sqmm cable.(WWB2, as per drawing enclosed)	<b>03</b>
2.	<b><u>Wall side work</u></b> bench of size 1220mm L x 750mm W x 900mm H having granite top and one shutter and drawer, reagent rack, cable trunking, 5/15 switch/socket at every 2' distance and wiring with 6sqmm cable. .(WWB3, as per drawing enclosed)	<b>02</b>
3.	<b><u>Wall side work bench</u></b> of size 1510mm L x 750mm W x 900mm H having granite top and one shutter and drawer, reagent rack, cable trunking, 5/15 switch/socket at every 2' distance and wiring with 6sqmm cable.	<b>04</b>
4.	<b><u>Island work bench</u></b> of size 1830mm L x 1500mm W x 900mm H, having granite top and one shutter and drawer, reagent rack, cable trunking, 5/15 switch/socket at every 2' distance and wiring with 6sqmm cable.(IWB2)(as per drawing enclosed)	<b>01</b>
5.	<b><u>Sitting Table</u></b> of size 900mm L x 750mm W x 750mm H with one lockable drawer 75mm height, having white cedar bawarian birch laminated post formed top with hardwood lipping.(STT1)(as per drawing enclosed)	<b>09</b>
6.	<b><u>Big Sink Unit</u></b> of size 900x750x900mm made up of MS powder coated sheet with granite top (BSU, as per drawing enclosed)	<b>01</b>
7.	<b><u>Wall Chemical Cabinet</u></b> (WCC1), 600x380x675 mm	<b>10</b>
8.	<b><u>Wall Chemical Cabinet</u></b> (WCC1), 1200x380x675 mm	<b>12</b>
9.	<b><u>Storage Unit 2</u></b> (SU2) having one small and one big drawer	<b>06</b>
10.	<b><u>Equipment table with electrical trunking</u></b> (EQT1) of size 900x900x900mm having granite top	<b>02</b>
11.	<b><u>Wall side sink unit</u></b> of size 600x750x900mm made up of MS powder coated sheet with granite top(BSU, as per drawing enclosed)	<b>01</b>
12.	<b><u>Fume hood along with scrubber</u></b> as per specifications enclosed with underneath cupboards connected to the ventilation (ducted) through fume hood exhaust. The Fume Hood must be supplied with 8mm wire capable of handling 8 KVA load with 15 amp plug point of size 1830 mm as indicated in specifications. [ For Technical specification refer- <b>Annexure-II</b> ]	<b>04</b>
13.	<b><u>FRP ducting</u></b> 20 mm dia	<b>150 mtr</b>
	<b><u>Terms &amp; Conditions:</u></b>  1. <b><u>The bidder must have undertaken atleast one supply of lab furniture of value Rs 8.00 lakh in Govt/Semi Govt/ Autonomous bodies/Central PSU/State Govt.</u></b> 2. <b><u>The bidder must supply a sample for item no 2,5,7 &amp; 9 before opening of Technical bid.</u></b>	

### **A) IMORTANT NOTES:-**

**I The online updated Price BOO is in INR format.**

- II. **The Online bids should be submitted directly by the original manufacturer/supplier. If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company.**
- III. **All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.**
- IV. **Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.**
- V. **Warranty: Minimum One year, if not specified above.**

#### **B) SUBMISSION OF TENDER**

- I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.
- III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. **Also bidders applying against ‘MSME/NSIC Certificate’ issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for “supply & installation of Desktop” the certificate should be issued for activity/area of “Computer supply and services activities etc” otherwise bid will be REJECTED without notice.**
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

#### **C) INSTRUCTIONS**

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.
3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. Conditional tenders will be summarily rejected.
4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
5. THE INSTITUTE IS EXEMPTED FROM CUSTOM DUTY under notification no- TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the

copy of PAN card, GST number duly self-attested.

7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
8. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.
9. The delivery period should be specifically stated. Earlier delivery will be preferred.
10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
11. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 3% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020* and as per norms may be sought from the firms.
12. The right to reject all or any of the quotation and to split up the requirements for itemized L-1 or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
13. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-sd-  
Assistant Registrar (P&S)

**ANNEXURE-I**

**Bid Securing Declaration Form**

Date: \_\_\_\_\_ E-Tender No. \_\_\_\_\_ E-Tender ID \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)  
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)  
Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)  
Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PS: *Furnish the above in original stationary/letter head with signed and sealed.*

## ANNEXURE-II

### FUME HOODS SPECIFICATIONS

#### **1) Standard Fume Hood Performance Requirements**

- a) Fume hoods shall be of complete KD (Knock down) construction with airfoil design to insure maximum operating efficiency. Foil sections at the front facials of the hood shall minimize eddying of air currents at the hood face and the rear baffle system shall minimize turbulence in the upper portion of the hood interior.
- b) Test Method – The hood shall be tested by a third party as per the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 110-1995 and EN-14175.

#### **2) Quality Assurance**

- a) The laboratory fume hood manufacturer shall provide fume hood work tops and casework all **manufactured & shipped with** proper packing & should take the full responsibility of the entire scope of works as specified in the tender.
- b) Each fume hood should come Pre Wired along with PDI (Pre Dispatch Inspection Report)**

#### **3) Specifications**

- a) **Superstructure Frame** – A free-standing rigid panel structure of steel (G.I.)
- b) **Interior Walls**- Double wall ends, not more than 6" wide, shall be provided to maximize interior working area. The area between the double wall ends shall be closed to house the remote control valves. Cutouts to be provided inside the fume hood for service line accessibility. The same to have a cover with a fastener free design. The vertical facias shall contain the required service controls, electrical switches and receptacles.
- c) **Airfoil** – A streamlined airfoil shall be integral at the bottom of the hood opening on bench and distillation hoods. This foil shall provide a nominal 20mm open space between the foil and the top front edge of the work surface to direct an air stream across the work surface to prevent back flow of air. The sash to be provided with a separate handle which also provides for air flow when in completely closed position. The foil shall be 1.2mm steel to resist denting and flexing.
- d) **Baffle**- A stable, non-adjustable baffle with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle shall be space out from the back liner and shall be removable for cleaning.
- e) **Duct Collar**- A 8"-10" diameter polyethylene funnel shaped rectangular duct collar shall be located in the top of the hood plenum chamber.
- f) **Lighting**- Two fluorescent light fixture (inclusive of CFL tubes) of 20 volts each to be provided in the fume hood. The lighting fixture to be completely outside the fume hood area.
- g) **Sash**- A sash provided should be move in a vertical rising steel frame without any noise. The bottom of the sash frame shall have a full length metal handle. The ash track has minimum protrusion to avoid any kind of turbulence. The sash shall be counterbalanced with a weights to prevent tilting and binding during operation. The glass panels shall be 5mm toughened glass mounted in an leveled channel with roller for smooth operation.
- h) **Plumbing Services** – Utility services like Nitrogen, Vacuum, Compressed Air & Potable water shall consist of remote control valves as selected located within the end panels, controlled by in and out facility with flexible hose passing through the side panels of the hood, with color coded plastic handles. Interior fitting for water shall be with powder coated brass. All gas valves for regular lab gases to have standard needle valve and push and turn type arrangement for all burning gases to be supplied. All supplied valves to clear the following pressures test conditions: Gas Fittings- 7 bar, Water fittings-10 bar.
- i) **Electrical Services** – The hood superstructure shall be fully wired and should have a control box with MCB blower starter all safety devices like trip etc. Inlet to be of 3 phase power supply and the whole electrical to be of plug and play type. It also has 4 nos. electrical sockets and switches of Northwest make (230 V, 5/16 A, 50 Hz)
- j) **Liner**- Interior liner panels shall be 6 mm thick Phenol resin base industrial laminate.
- k) **Digital Panel**- Fume hoods shall be provided with an alarm system to detect low and high hood face velocities. The alarm system shall indicate the actual face velocity of sash

position. The system has an air velocity sensor mounted on the interior side liner of the hood where it is easily accessible for cleaning. The velocity monitor shall have a digital display of the air velocity through the hood face in feet per minute. The alarm signals shall activate any time the face velocity falls below the low velocity alarm set point or rises above the high velocity alarm set point. There shall be both visual and audible alarm signals. The audible alarm shall have a mute. Low and high alarm contacts shall be provided for remote monitoring.

- l) **Lattice Rod Assembles** – 12mm diameter solid SS rods shall be completed with the PP clamps to form a lattice arrangement to hold the test samples and rotors within the fume hood.
- m) **Centrifugal Blower**- Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impellar. The blower is designed to give a face velocity at safe working height as per the international safe velocity norms. (ANSI/AIHA Z9.5). The blower body is polypropylene UV treated, high density and chemical (corrosion) resistant and is mounted on a metallic stand
- n) **Ducting** – Rigid Ducting of PP ( Polypropylene ) + FRP ( Fibre Reinforced Polyester ) and flexible ducting with flanges, bends, damper transitions, clamps etc all complete. Flexible joint is provided in the ducting in order to avoid transmitting the blower vibrations to the hood. A weather proof rain cowl has to be provided at the outlet of blower.

### **SCRUBBER SPECIFICATIONS:**

<b>Sr. No.</b>	<b>General Details</b>	
a.	<b>Scrubber</b>	For 1 no. LCV fume hoods of 6 feet width
b.	<b>Capacity</b>	1000 CFM for two 6 feet width LCV fume hoods
c.	<b>Working temp.</b>	Ambient
d.	<b>Design temp.</b>	60 degree Celsius
e.	<b>Type</b>	Vertical Packed Bed scrubber with circulation tank and recirculation pipes and fittings.
f.	<b>Motor MAKE-KIRLOSKAR/AMBICA/KRANTI</b>	0.5 HP, 2900 RPM, Capacity 50 ltr/min, Head 5 mtrs
g.	<b>Bottom/ room/ shell</b>	PP + FRP
h.	<b>Manway necks/ Reinf. Pads</b>	PP + FRP
i.	<b>Manway flanges</b>	PP + FRP
j.	<b>Nozzle necks</b>	PP + FRP
k.	<b>Nozzle flanges</b>	PP + FRP
l.	<b>Gasket</b>	Natural resin – 3mm
m.	<b>Bolts and nuts</b>	GI

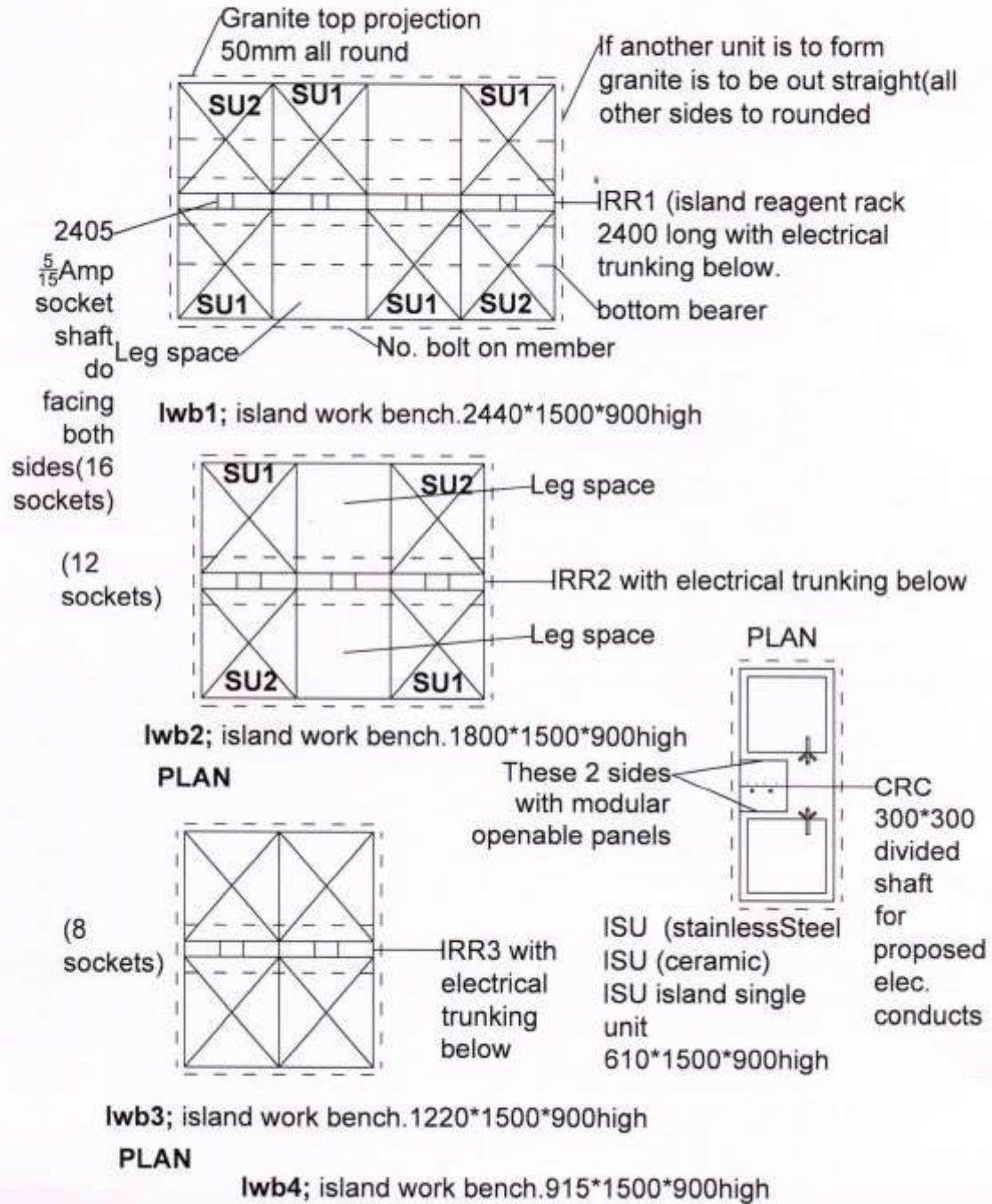


n.	<b>Tank</b>	3 mm PP + 5 mm FRP
o.	<b>Scrubber</b>	3 mm PP + 3 mm FRP
p.	<b>Outside of tank</b>	Smoke grey
q.	<b>Inside of tank</b>	NIL

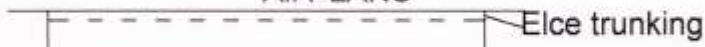
**Others:**

- a) Accessories like overflow provision and water level indicator.
- b) Less space occupation, maximum efficiency and maximum recollection. All nozzles shall be provided with FRP gussets.
- c) Water fill shall be done to take care of leakage. Floor space requirement of 2 m X 2m.
- d) Water fill test shall be done to take care of leakage
- e) **Base Cabinets** – Fume hoods are designed to rest on a bench (high base stand, pedestal or a cabinet) which is a complete rigid steel structure. Gauge of steel used in its construction shall be 0.8 mm GI.
- f) **Transition-** Used to connect fume hood with ducting should be designed to reduce the static pressure and is made up of PP-FRP.
- g) **Work Surface** – Hood work surface shall be 20mm thick jet black granite made in the form of a watertight pan, not less than 7 mm deep to contain spillage. Worktop will have oval 100mm x 200mm 'PP' Cup-Sink for drainage. The work surface and cup drain shall be available in black colour.

**ANNEXURE-III (DRAWINGS)**



All PLANS



**WRR1** wall reagent rack 8'1'2'3''high

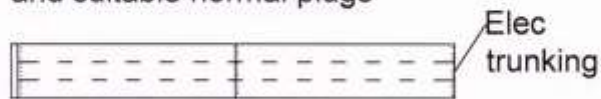


**WRR2** wall reagent rack 6'1'2'3''high



**WRR3** wall reagent rack 4'1'2'3''high

Note; All racks formly fixed to wall by chemical resistant (85) screw and suitable normal plugs



**IRR1** Island reagent rack 8'1'2'3''high

Note; All reagent racks to be attached to bench tops without toppling possibility



**IRR2** Island reagent rack 6'1'2'3''high



**IRR3** Island reagent rack 4'1'2'3''high

**IRR4**

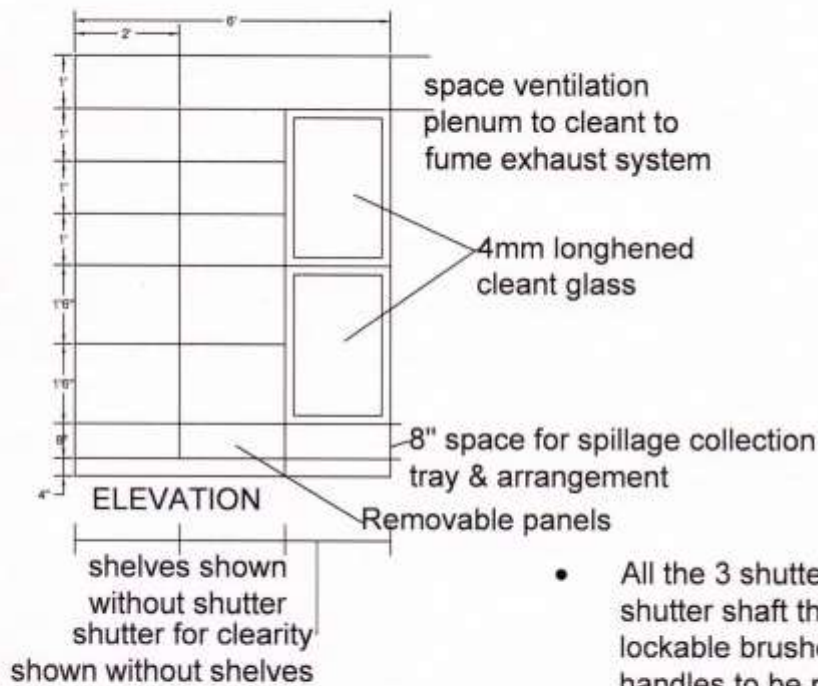
Note; All reagent racks are to be of crc sheets of adequate strength

- For all these bult on shaft at 4'9" height with electrical trunking below.
- Every 2' space 2ms  $\frac{5}{15}$  Amp sockets.
- Top of rack at 7' wt and interimidate shaft at 1'6" ht.

**ELECTRICAL**

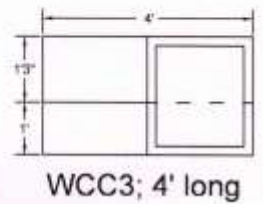
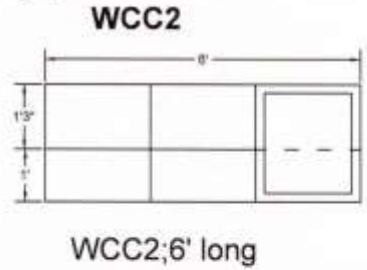
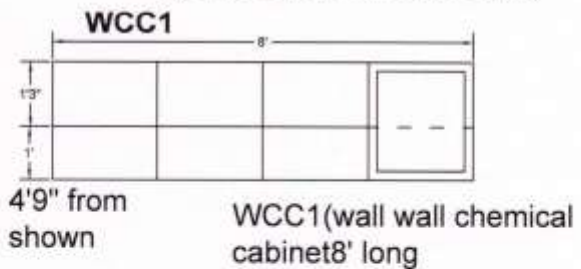
- For all these bolt on shaft at 1'6" above wasle top with electrical end trunking below.
- Every 2' space 2ms  $\frac{5}{15}$  Amp sockets, facing both sides.

Top of rack at 5'6" height & intermediate shaft at 4'6"ht



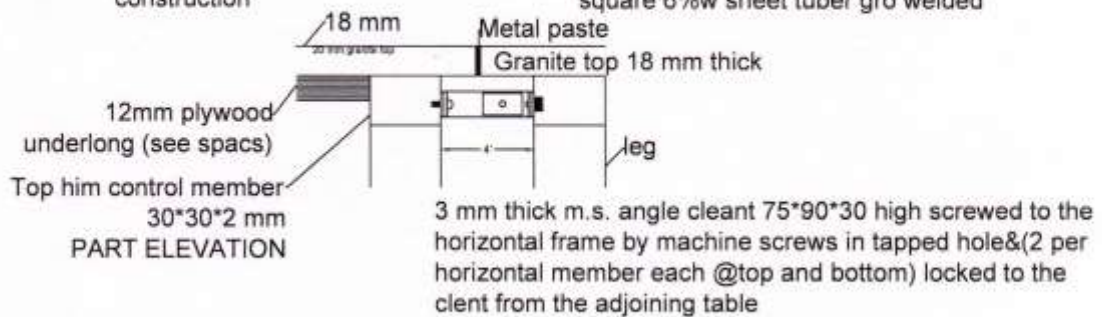
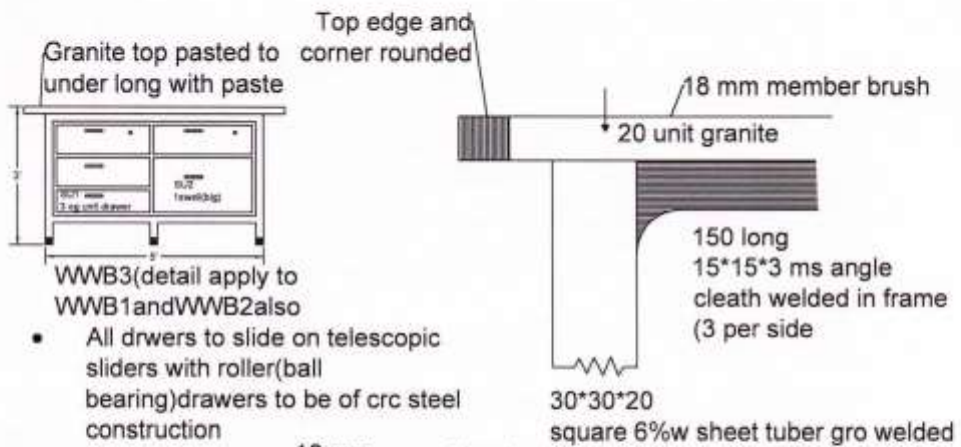
- All the 3 shutter and 3 bottom shutter shaft the individually lockable brushed stainless pull handles to be provided
- leveling bolts/brushes to provided at the bottom

**VCC:** Ventilation chemical copboard (vcc)2'6" deep  
 (To be constructed out of crc sheets with each shelf beaing with adequate stiffenets to take the loading (1 shelves 10 kgs;1'6"shelves;20kgs each)

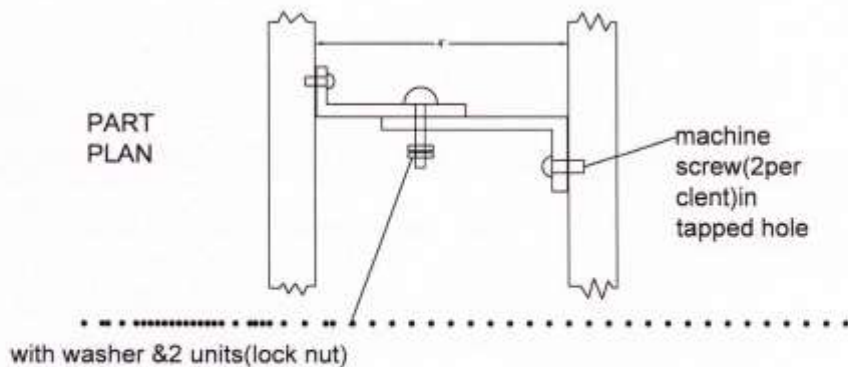


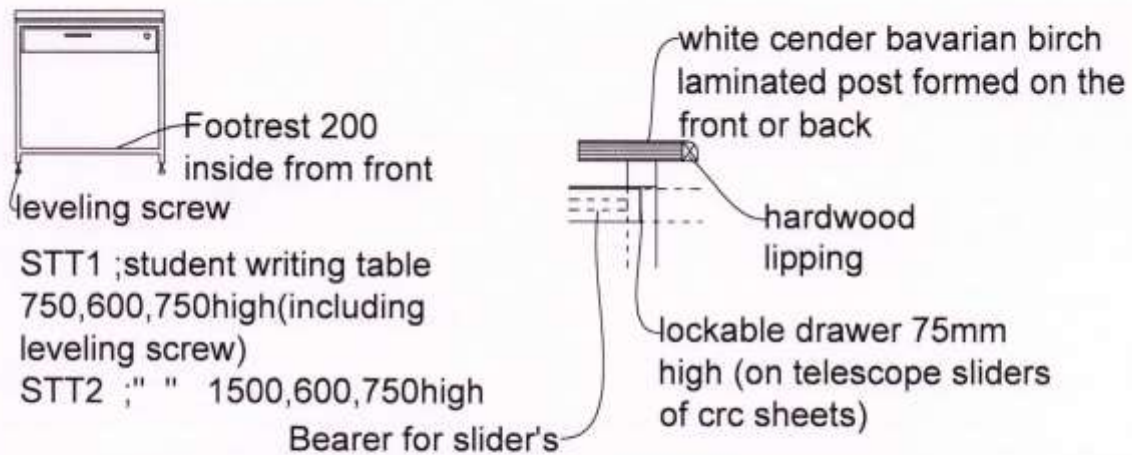
- Only one shutter shown for clerity in each cabinet
- All cabinets 1'3" deep
- Electrical trunking tube provided below all cabinets

2ms 15/5 amp out lets every 2'



T Tpical detail for connecting work benches (after installation)





List of additional types tables with some changes based on  
wwb (wall work beanch)on sheats 1 and 2;

WWB1W; wall work beanch 8',2'wide,3'high with

WWB2W; " " 6',2'wide,3'high

WWB3W; " " 4',2'wide,3'high

SSP2 ; special table 6' ,4'wide,2'6"high with white top

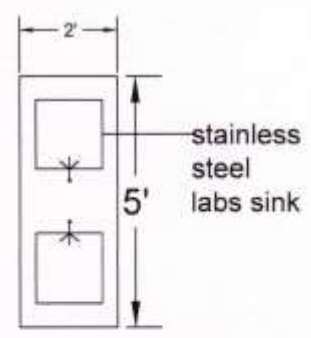
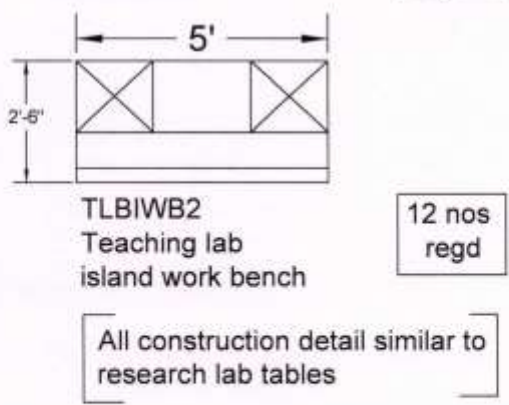
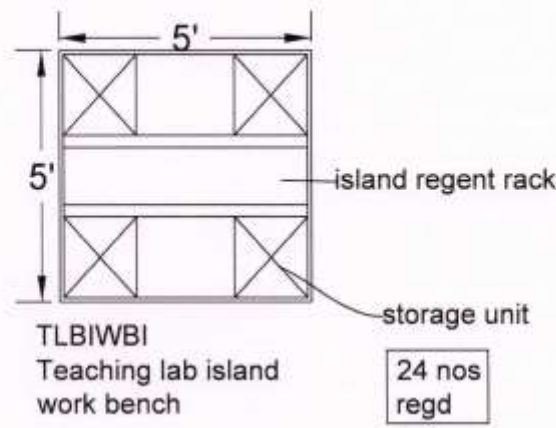
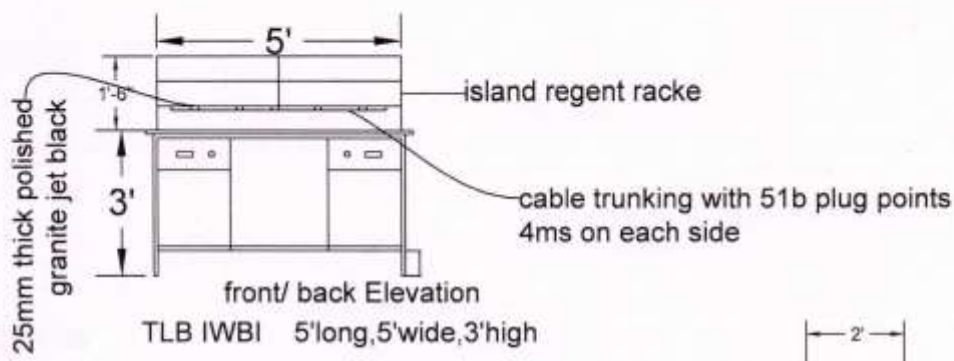
SPT3 ; " " 4',4'wide 2'6" high. SPT3

STT1 ; students'writing table 2'6"long, 2'6"wide and  
2'6"high with laminate top(see detail SST1alone)  
and 1drawer 3" high 2'6"(n)

SST2 ; " " 5'long,2'wide,2'6"high with 2  
drawers 2'6" wide(n)3" high STT2

BSU ;big sink unit

ISU ;islant utility shaft

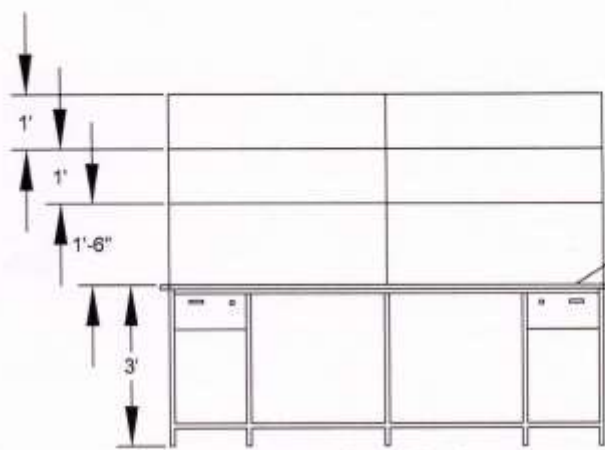


TLB ISUI  
Teaching lab biology island sink unit

18 nos Regd

cable trunking 204'

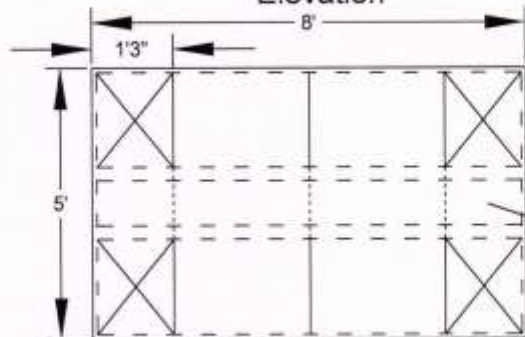
TEACHING LAB BIOLOGY



polished jet  
black granite  
25mm thick

CABLE TRUNKING  
204'

front/Back  
Elevation



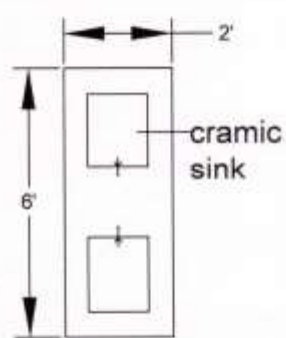
cable teaching  
lab chemistry  
will have 12  
fumehoods  
4'wide,3'deep,8'high

TLFH

Island  
reagent  
rack  
1'  
wide

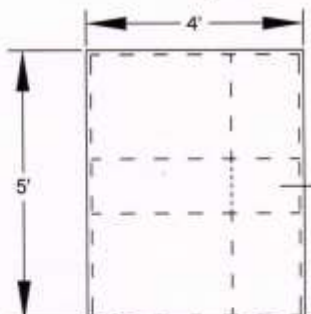
plan

Teaching Lab Chemistry  
Island Work Bench



TLC ISU

12 nos  
regd



island reagent  
rack with cable  
trunking below

18 nos  
reqd

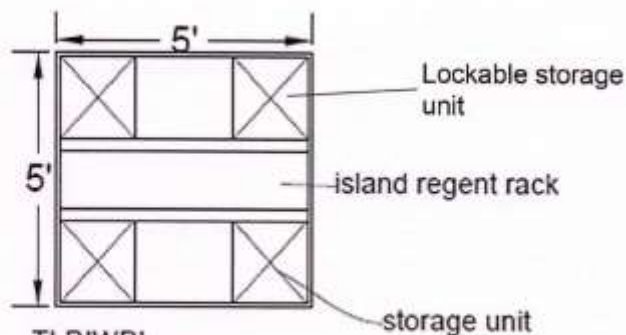
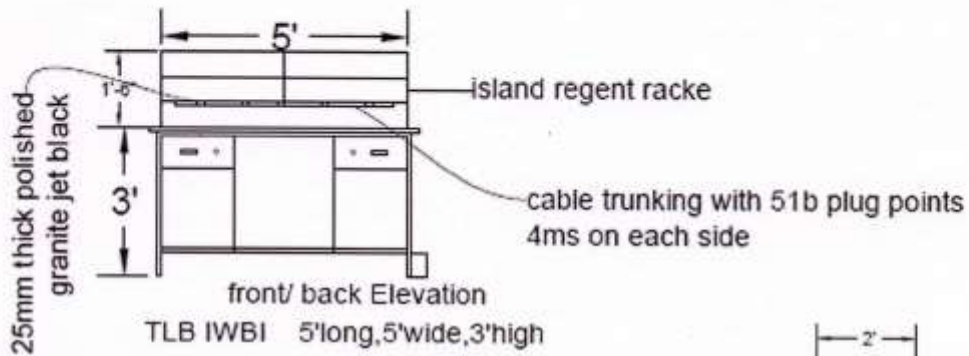
TLC IWB2

TEACHING  
LAB  
CHEMISTRY

construction details similar  
to research lado cables

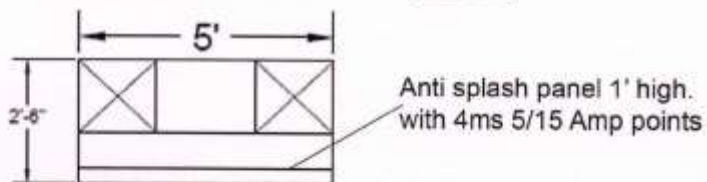
teaching chemistry curve lab





TLBIWBI  
Teaching lab island  
work bench

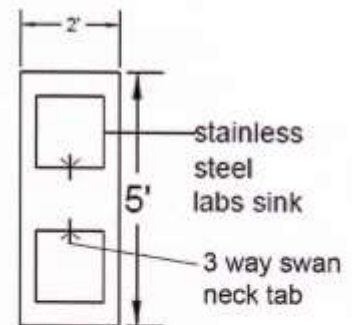
24 nos  
Reqd



TLBIWB2  
Teaching lab  
island work bench

12 nos  
regd

All construction detail similar to  
research lab tables

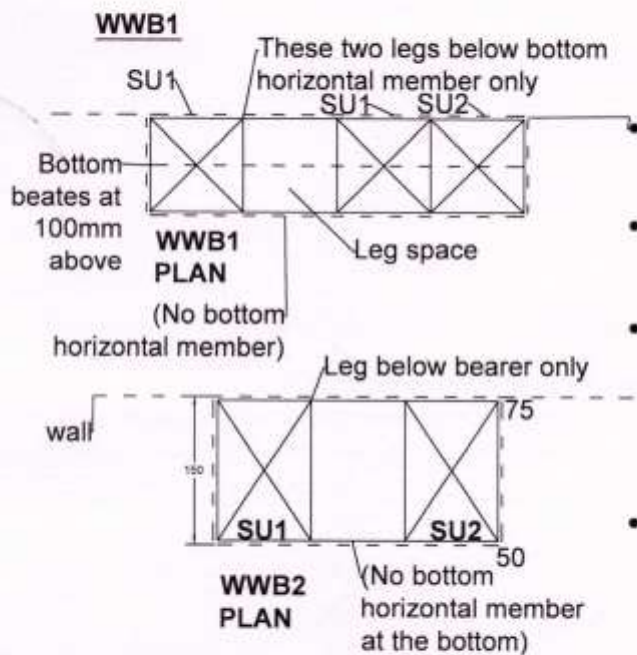


TLB ISUI  
Teaching lab biology  
island sink unit

18 nos  
Reqd

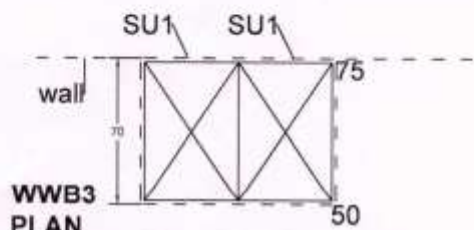
cable trunking  
204'

TEACHING LAB  
BIOLOGY



- Granite top projection 75mm at the back (No rounding) with 100 high splashrack of same material
- Other 3 sides projected to be 50mm top edge  $\frac{1}{4}$  rounded and polished
- Note; where 2 unit are formed that side not to be rounded but straight cut and polished

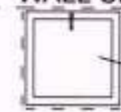
- All storage units should name group rocking system (or all drawers in one vertical row should have one key)



- All work benches 900 and 750mm deep (all work top sides)
- WWB1; wall work bench 2440 (8') long.
- WWB2; wall work bench 1830 (6') long.
- WWB3; wall work bench 1220 long.
- WSU; sink unit against wall 610 long.

- WWB2N; wall work bench  
 6'3" high \* 2' wide  
 • WWB2WD; " "
- 6'3" high \* 3' wide  
 • WWB3WD; " "
- 4'3" high \* 3' wide

**WALL SINK UNIT**



Sink front  
 22" \* 22"

WSU(ss); Stainless Steel Sink  
 WSU(c); Ceramic Sink  
 (600 wide, 900 deep, 900 high)

- Expect where mentioned otherwise all tops will be 1st quality plain jet black ceramic polished and rounded/straight cut as below
- see sheet 3 below