



# DHA SUFFA UNIVERSITY

DG -78, Off Khayaban-e-Tufail, Phase -VII (Extension), DHA, Karachi - 75500

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In reply, please quote,  
DHA/DSU/48/RFO/025/2013-14

## RFQ

Description : Development of Applied Chemistry Lab  
 Date of Issue : August 30, 2013  
 Date of Submission of Quotation : September 09, 2013 by 3:00 pm  
 Time of Opening : September 09, 2013 by 3:30 pm  
 Contact Person & Telephone : Procurement Officer, DSU  
 021-35244872

### Lot # 1 Civil and Electrical Works

S. No.	Item	Description	Qty
1.	Glass Partition in center of the lab to divide it into two halves	<ul style="list-style-type: none"> <li>Size: 35'(W) x8'(H)</li> <li>8mm Glass: Tempered, with frosted paper</li> <li>Frame: Aluminum fixed on top &amp; bottom of Glass</li> <li>False Beam: 35'x4" on top of the Aluminum frame (Last frame on one side, above marble table, will have less than 8' in height)</li> </ul>	01
2.	False Ceiling	<ul style="list-style-type: none"> <li>2'x2' Gypsum tiles &amp; its frame and fixtures for all lab</li> <li>Area covered = 35'x26-1/2' (in conformance with the lab partition dimensions)</li> </ul>	01
3.	Lighting	<ul style="list-style-type: none"> <li>Supply and fixing Philips recessed ceiling luminaries with metal louver (MI) complete with 4 x 20W tube lamps, starter and capacitor (Code No. TBS 300E / 240MI)</li> <li>Phase balancing to be ensured from source across various rows of lights</li> </ul>	12
4.	Electric Sockets for the instruments	<ul style="list-style-type: none"> <li>8 x 3pin power socket outlets (Clipsal)</li> <li>Single Phase Electrical wiring through plastic closed-C channels (minimum 26 Running Feet) on rear wall of lab, under the instruments table</li> <li>Phase balancing to be ensured from source across various sockets</li> <li>Ensuring discrete link with selected breaker in the outside lab DB</li> </ul>	08
5.	Electric Sockets for Air Conditioners	<ul style="list-style-type: none"> <li>2 x 3pin power socket outlets (Clipsal)</li> <li>Single Phase Electrical wiring from outside DB through plastic closed-C channels (approx. 50 Running Feet or as per actual) on rear wall of lab, moving vertically up below False Ceiling above the instruments table</li> <li>Phase balancing to be ensured from source across various sockets</li> <li>Ensuring discrete link with independent breakers in the outside lab DB</li> </ul>	02

6.	Provision of Gas supply	<ul style="list-style-type: none"> <li>• Connecting ground source gas supply to 2<sup>nd</sup> floor in new Applied Chemistry Lab (SF-217) through rear wall for Fume Hood</li> <li>• GI Piping system to be used</li> </ul>	01
7.	Provision of Water supply	<ul style="list-style-type: none"> <li>• Connecting water source supply to 2<sup>nd</sup> floor in new Applied Chemistry Lab (SF-217) through rear wall for Fume Hood</li> <li>• uPVC Piping system to be used</li> </ul>	01
8.	Water Drain System	<ul style="list-style-type: none"> <li>• Provision of drain for fresh water supply &amp; its connection to the existing drain system on outer wall, given previously at site.</li> </ul>	01
9.	Water-proofing of Ventilators	<ul style="list-style-type: none"> <li>• Existing ventilators allow water dripping through its fixed frame. This is exaggerated since outer wall is totally exposed to rain water directed on the ventilator as well as water trickling down the wall.</li> <li>• Proper sealing work/Water-proofing is required to eliminate any possibility of water leakage in case of rains.</li> <li>• Size : Approx. 6' x 1-1/2'</li> <li>• Aluminum frame with one sliding/locking panel</li> </ul>	03

**Lot # 2:**  
**Repair / Renovation / Maintenance Works**

S. No.	Item	Description	Qty
1.	Repair/Renovation of power supply sockets	<ul style="list-style-type: none"> <li>• Checking of all sockets on the marble blocks for existing connectivity with power</li> <li>• Energizing all sockets for electrical power availability through new connection</li> <li>• Ensuring phase balancing through new wiring to these sockets</li> <li>• Identification markings for the lab power control from outside DB</li> </ul>	28
2.	Repairing/Replacement of Water Taps	<ul style="list-style-type: none"> <li>• Water source needs to be located from rear lab wall for connecting the Taps across the lab (distance of approx. 35') with uPVC piping arrangement</li> <li>• It is recommended that the lines pass over the false ceiling in the lab to remain concealed and also be maintainable.</li> <li>• Plumbing, fittings and connections to be included in the works</li> <li>• Damage to marble top must be avoided</li> </ul>	03
3.	Repairing/Paintwork of the wooden cabinets & drawers	<ul style="list-style-type: none"> <li>• All cabinets in the marble platform need to be checked for proper hinges and catchers.</li> <li>• New paintwork is required on all accessible/visible wooden cabinets</li> </ul>	01
4.	Modification in Drawers	Convert two adjacent small drawers above cabinets into one large drawer (in the 11' marble block which is in front of the instruments table)	02
5.	Polishing of Marble Tops	Existing marble tops require grinding and then standard polishing to cleans the surface and improve its surface aesthetics as well. Marble top sizes are as listed below; <ol style="list-style-type: none"> <li>a. 11' x 4' [3 in no.]</li> <li>b. 6' x 4' [3 in no.]</li> <li>c. 22' x 3' [1 in no.]</li> </ol>	07
6.	Fumigation	Fumigation for Termites and Lizards which may include both gaseous and liquid fumigation in the lab, adjacent store and office.	01

**Lot # 3**  
**Manufacturing, Supply and Installation of Fume Hood**

S. No.	Item	Description	Qty
1.	<b>Fume Hood</b> (with items 1a to 1e)	<ul style="list-style-type: none"> <li>• Size: 48"(W) x 36"(D) x 96"(H)</li> <li>• Imported Lassani Sheets as structure</li> <li>• Classic Formica sheets (Ash color)</li> <li>• Double-door cabinet in lower section, providing access to plumbing fixtures etc. size: 4'(W)x3'(D)x3'(H)</li> <li>• 1 x Single 5mm Tempered Glass Sliding door, size : 4'(W)x3'(H) with SS handle (to be vertically sliding on Left &amp; Right edge railings)</li> <li>• 1 x Water Tap (<b>see 1a below</b>)</li> <li>• SS Sink exactly under Water Tap fitted within base platform, sealed properly to avoid leakage</li> <li>• 1 x Gas Connection (<b>see 1c below</b>)</li> <li>• 1 x Tube light, with plastic cover (<b>see 1e below</b>)</li> <li>• 3 x Multi-socket Clipsal fixed, with complete wiring, fixed on right outer wall (vertically aligned)</li> <li>• Stainless Steel Pipe fittings inside fume hood</li> <li>• Stainless Steel lining on base platform, ceiling &amp; all three inside walls</li> <li>• Exhaust / Impeller with 1 hp motor for air extraction, with 6" duct through wall, fittings &amp; associated hardware</li> <li>• Fume Hood feet should give clearance for cleaning and evacuation of liquid spills</li> </ul> <p>Sample Fume Hood Pictures in <b>Flag 'D'</b></p>	01
1(a)	Water Connection System	Water tap is to be controlled through valve from the front panel of the Fume Hood. Source to be provided in lab from outside through rear wall. Plumbing, fittings & accessories included	01
1(b)	Drain System	Water drainage from sink. Proper plumbing below base platform (accessible from lower cabinet doors for maintenance) and evacuation to be provided through p-trap from rear side of Fume Hood and lab rear wall.	01
1(c)	Gas Supply System	<ul style="list-style-type: none"> <li>• Gas source to be brought in the lab by connection with main supply at ground floor, through rear wall of lab.</li> <li>• Control is to be provided from front panel through gas control valve.</li> <li>• Plumbing, fittings &amp; accessories included need to be managed under the base platform along with the water line plumbing, and to avoid crossing with the electrical wiring to be managed above the chamber.</li> </ul>	01
1(d)	Ducting for removal of fumes	<ul style="list-style-type: none"> <li>• Required for air &amp; fumes evacuation from the fume hood chamber using the <b>1hp</b> motor impeller /exhaust.</li> <li>• SS duct is to pass from top of Fume Hood, impeller, through the wall, removing fumes to the atmosphere. Finishing vertically up along the outside wall, having a canopy to avoid rain water from entering duct.</li> </ul>	01

		<ul style="list-style-type: none"> <li>• 1 x Button is also to be provided for the Exhaust/Impeller on the front panel</li> </ul>	
1(e)	Light & Electricity connections	<ul style="list-style-type: none"> <li>• Tube light (with plastic cover for aesthetics and safety) to be fitted on the ceiling of the fume hood.</li> <li>• Breakers' distribution board (plastic body with cover) fixed with 3 x MCBs 10A each (make: General Electric or equivalent) with light indicators for phase ON status display</li> <li>• Wiring and connections for light, sockets &amp; impeller, coming from Breakers' DB are to be concealed in the above portion of fume hood, ensuring that chances of water electrocution or ignition of gas are minimized.</li> <li>• Switching of this light is to be controlled through 1x Button provided on the front panel (as shown in sample <b>Flag 'D'</b>)</li> </ul>	01

**Bid Security:**

A bid security, in shape of a Pay Order / Bank Draft in the name of “DHA Suffa University” equivalent to 2% of the total cost of bid, should be submitted along with the quotation by the bidders. Bid Security will be confiscated if the supplier could not supply / install all or any of the above items on stipulated time.

**Performance Security:**

5% of the of the total cost of the project shall be retained / held on account of Performance Security and will be released after 6 months, after the satisfactory completion of the project.

**Mandatory:**

Supplier, who will be awarded the Work Order for the above mentioned work shall be responsible to provide a samples of items for approval before manufacturing / fitting.

**Important:**

1. All bidders must ensure the conformance / compliance of above requirements and quote exactly according to the ready sample already installed in DSU.
2. Bidders are **strongly** advised to visit the site for measurement & relevant information before quoting their bids.
3. Purchase / Work Order will only be given to the bidder who will quote lowest bid complying to the description / specification and terms and conditions given below.
4. All the allied items required for installation etc. shall be the responsibility of the bidder on site and according to the requirement of DSU, complete in all respects. DSU will not provide any allied item / equipment in this regard.
5. All items must be according to the sample available in DHA Suffa University.

**Terms & Conditions:**

1. Companies/Firm/Vendors/Suppliers registered with Sales Tax and Income Tax ordinance / act are invited to submit their quotations. All applicable taxes will be deducted as per SROs.
2. Transportation / cartage shall be the responsibility of the bidder.
4. Duly signed and stamped Quotations in sealed envelopes should be submitted at the Office of the Procurement Officer, DSU between 9:00 am to 5:00 pm on working days.

5. Quotations will be opened on date & time mentioned above in the presence of representatives who may care to attend. In case of holiday, quotations shall be opened on next working day at the same place and time.
6. DSU reserves the right to cancel any or all Purchase / Work Order(s) if material is not in accordance with our specifications or if the delivery is delayed.
7. Payment will be made through crossed cheque after delivery and successful installation / commissioning of all systems listed above and receipt of the bill / delivery challan.
8. Penalty at the rate of 2% per month on actual will be imposed on delayed delivery.
9. The rate / price quoted for each item shall be final and no change will be allowed.
10. Competent Authority reserves the right to change / alter / remove any item or article or reduce / increase quantity upto 15% without assigning any reason.
11. Invoice / Bill & Delivery Challan should be submitted to the Procurement Officer, DSU.
12. No subletting in any case / item / form will be allowed.
13. Sample(s) / image(s) are available in the Procurement Office, DSU and can be seen during office hours for ready reference.
14. Quotations must be on the company / vendor / supplier's Original Letter Head, indicating land line telephone numbers, registered postal address & National Tax Number.
15. Quotations which are incomplete or do not conform to the Specifications and Terms & Conditions stated above shall be rejected.
16. In case of any dispute, the decision of Competent Authority i.e., Vice Chancellor, DHA Suffa University shall be final and binding.
17. In case of any complaints, please contact Admin Officer, DSU on Ph No. 021-35244860.

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**Procurement Officer**