

**THIRD WORLD CENTER FOR CHEMICAL SCIENCES  
INTERNATIONAL CENTER FOR CHEMICAL AND BIOLOGICAL SCIENCES  
UNIVERSITY OF KARACHI  
KARACHI-75270**

**TENDER NOTICE NO. TWC-HEC-120810**

Sealed tenders are invited from the reputable sales tax and income tax registered firms, sole distributors, dealers/suppliers for Supply of the following system to the Center from a H.E.C. funded research project.

1. Blade Solution IBM / HP or equivalent

The detail and specification of the items, can be collected from Purchase Office of the Center, on any working day between 9.00 a.m. to 12.30 p.m., from the date of publication of this advertisement in newspapers, on payment of Rs. 500/- (non-refundable), in shape of a pay order (Demand Draft by the out of Karachi suppliers), in favor of the Director, or downloaded from the websites [www.iccs.edu](http://www.iccs.edu) [www.pprasindh.gov.pk](http://www.pprasindh.gov.pk) and [www.ppra.org.pk](http://www.ppra.org.pk) The tenders can be submitted with 2% of the bid value as earnest money, in shape of a pay order in favor of the Director of the Center, latest by 10.30 a.m. on 12-08-2010. The tenders will be opened in Purchase Office of the Center at 11.00 a.m. on the same day in presence of the bidders or their representatives. The Procuring Agency may reject all or any bid subject to the relevant provision of SPP rules.

***PRINCIPAL INVESTIGATOR***

**DESCRIPTION OF THE ITEM**

<b>S.No.</b>	<b>Item Description</b>	<b>Qty required</b>	<b>Estimated Cost in Rs.</b>
1.	Supply of Blade Solution IBM / HP or equivalent	1	5.0 million

## LIST OF ITEMS

<b>S.No.</b>	<b>Item Description/Specification</b>	<b>Qty</b>
1.	Blade solution <sup>TM</sup> H Chassis with 2x2900W PSU, Rackable with redundant backplane and ability to connect full height blades or equivalent.	1
2.	SAS connectivity module for external storage connectivity or equivalent	2
3.	H-2900W AC Power module w/fan pack or equivalent	1
4.	Open fabric manager basic and advanced for blade seamless failover or equivalent	1
5.	BNT Layer 2/3 copper GB Ethernet switch module	1
6.	Ultra Slim enhanced SATA multi-burner or equivalent	1
7.	2.8m, 200-240V, Triple 16A IEC 320-C20 or equivalent	2
8.	Xeon 4C E5620 80W, 2.40GHz/1066MHz/12MB, 3x2GB, O/Bay 2.5in SAS with dual power and I/O connectors or equivalent with 2 x 146 GB 10 K rpm HDD per server.	8
9.	Intel Xeon 4C Processor Model E5620 80W 2.40GHz/1066MHz/12MB or equivalent	8
10.	SAS Connectivity Card (CIOv) for Blade or equivalent	8
11.	Management software along with integrated management module with built in KVM Management software should be able to manage servers from multiple vendors or equivalent	1
12.	SAN Storage with following features dual controller storage system with capability to connect hosts with SAS and iSCSI or FC, should support and intermix SAS and nearline SAS along with encrypted SAS disks, system should be able to hold at least 96 disks or equivalent	1

13.	System should have 2GB Cache installed with scalability upto 4GB or equivalent	
14.	600 GB 3.5in 15K 6G SAS HDD required or equivalent	6
15.	2GB 3.5in 7.2K 6GB NL SAS HDD required or equivalent	3
16.	Should be able to connect at least 8 hosts (required) with capability to connect upto 64 hosts	1
17.	Should include multi-path failover licenses for all the servers to be connected	1
18.	3m SAS Cable or equivalent	4
19.	Training for Blade Center Solution (Free Recourses)	3
20.	42 U Rack Cabinet with side panel, Rack Air flow optimization kit, rack grounding kit, rack stabilization kit, rack PDU's, 17" rack mount display with integrated keyboard and print device.	1

**Warranty required: 3 Years Parts – 3 Years Labor – 3 Years on site Support**

**Note:** All quotes must include the standard warranty period as mentioned in the specifications, or otherwise (i.e. if not mentioned in the specifications).