



कार्यालय कुलसचिव एवं लोक सूचना अधिकारी
OFFICE OF THE REGISTRAR & PUBLIC INFORMATION OFFICER
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No.IITR/PIO/RTI-1158/ 7388

Dated : 12 MAR 2012



Application ID No. IITR/RTI-1158 dated 23.01.2012.

Subject: Information under the Right to Information Act -2005.

1. Reference your application dated 17th January 2012 and Bank draft of Rs.92/- which was received by this office on 06.03.2012 seeking information under the RTI Act-2005.

2. The details of the enclosed documents are given here under:

Point No. (a), (b), (c), (d), (g) & (h) :

- (1) A copy of the Brochure of PC Quest **(08 pages)**.
- (2) A copy of the Memorandum of Understanding entered with Intel Technology India Pvt. Ltd. **(04 pages)**.
- (3) A copy of the Compare product feature and details **(04 pages)**.
- (4) A copy of the Technical Committee report on wi-fi network in Student Hostels **(02 pages)**.
- (5) A copy of Purchase-cum negotiation committee report on purchase of wi-fi requirements for student hostels **(02 pages)**.
- (6) Abstract from the 144th meeting of the Dean's Committee held on 17th July 2006 **(01 page)**.

Point No.(e): Please provide me with certified copies of Work Order & Purchase Order sent to vendor inviting them for supplying the equipments and installing the WIFI infrastructure.

- (1) Purchase Order No. ISC/P-145/2007/1717 dated 20th December 2007 **(01 page)**.
- (2) Purchase Order No. ISC/P-130/2006/1587 dated 28th March 2007 **(02 pages)**.
- (3) Purchase Order No. ISC/P-130/2006/1486 dated 1st December 2006 **(02 pages)**.
- (4) Purchase Order No. ISC/P-146/2008/1747 dated 7th March 2008 **(02 pages)**.
- (5) Purchase Order No. ISC/P-132/2006/1500 dated 20th December 2006 **(01 page)**.

Point (f): A copy of the letter dated 22nd November 2006 of D- Link (India) Limited **(03 pages)**.

Point No.(k) & (m): A copy of the information related to complains etc. **(01 page)**.

Point No.(l): (1) Purchase Order No. ISC/P-155/IPART-A/2010/2772 dated 14th January 2011 **(02 pages)**.
(2) Purchase Order No. ISC/P-155/IPART-A/2010/2785 dated 17th February 2011 **(02 pages)**.
(3) Purchase Order No. ISC/P-155/IPART-B/2010/2771 dated 13th January 2011 **(02 pages)**.
(4) Purchase Order No.ISC/P-154/2010/2133 dated 13th April 2010 **(02 pages)**.
(5) Purchase Order No.ISC/P-154/2009/2076 dated 8th January 2010 **(02 pages)**.

Point No.(n): A copy of the "who is who of Department of Higher Education, Ministry of Human Resource Development" **(03 pages)**.

Encl: (46 pages)



(अनिल कुमार श्रीवास्तव)
(A.K. Srivastava)

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Section: WIFI

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Today the market is flooded with a range of wireless access points. There are dozens of important features to consider, so much variation in cost and several different performance parameters, that it can become quite confusing to decide which one is right for you. To address most of these concerns, we ripped apart 13 wireless access points with a barrage of tests, and analyzed them for over a dozen features. You'll find their individual reviews in the subsequent pages, followed by a table comparing the important features as well as the performance results. These include eight access points of 802.11b and five of 802.11g standards. But, before that, we'll look at the important features that should be considered when buying an access point, followed by the performance parameters. All performance and features parameters discussed here, along with the price and warranty of each access point, have been included in our analysis for the shootout. As usual, we used the Brown-Gibson model to arrive at the weightages for these parameters.

Which standard?

Speaking of standards, it's still not legal to use 802.11g-based products without a license. Only 802.11b based ones can be used indoors freely. While it's not very expensive to obtain a license, it's a long drawn process. Alternatively, you could go for an 802.11b access point that's upgradable to the g standard, apply for a license and then upgrade once you get the license. It's, therefore, an important feature to consider when going for an 802.11b access point. If you have a license or don't mind putting in the effort to get one, then you could also go for 802.11g based access points as they have a maximum throughput capability of 54 Mbps, unlike 802.11b that can deliver only 11 Mbps. Plus, the g standard is backward compatible with b, so even if you have b based wireless clients, they would still work, albeit at 11 Mbps.

How much security?

Security has always been a concern in wireless networks, so it's important to check out the security features of an access point before you buy it. First, define the level of security you need in your setup. For

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if your office is in a crowded area and the chances of your WiFi signal going out of your premise then it's better to go for tighter security because it would be easy for someone from outside to misuse your WiFi network. What level of accessibility are you planning to provide through your WiFi network to your mobile users? Is it just to surf the Net or will they also be able to access your servers? There are various security modes providing different levels of protection. The most basic is WEP (Wireless Equivalent Privacy) encryption, which is present by default in all access points. But, Wireless Equivalent Privacy has been found to be weak and, therefore, not always suitable for security a WiFi network. Look for other security modes, such as MAC-address based filtering, Radius-based authentication and WPA before you go out on your hunt for the right access point.

Modes of operation

Most access points can be used in more ways than one, but this functionality varies across vendors. Besides working as a standard access point, it can also work as an access point-to-access point bridge, repeater, gateway and more. Having more modes of operation gives an organization the flexibility to use the access point in any way they need. So, support for more modes is always better.

Management features

How easy is it for you to manage your access point? Most of them provide a Web-based interface for management, but that's not enough. Look for more management features available in this interface. Does it support SNMP, so that if you have your network management software running in your organization, it can easily be added in? Is it simple support for SNMP or can you also set traps for certain conditions so it sends out information to the administrator every time there's a problem? What other information can the access point provide? Does it maintain log files of all system activity? What level of activity can it put in the log file? What kind of statistics can it display about itself? The more management features it has, the easier it will be on the network administrator.

Load balancing and fault tolerance

As the number of users connecting to a particular access point with load-balancing support increases beyond a predefined limit, it will shift some users to a nearby access point. This feature can be useful if you have high user density per access point. So, look for one that supports load balancing. Fault tolerance, of course, means that if one access point goes down due to some reason, then the clients connecting to it should be diverted to another access point.

Other features

There are several other features that need to be considered. One is automatic channel selection, which becomes important if you're deploying lots of access points. This way the administrator doesn't have to manually define each channel, thereby reducing chances of human error. Can the antenna of the access point be upgraded to a different type or of higher power? What kind of software ships with the access point? How useful is it when deploying WiFi? Does the access point support power over Ethernet? This can be useful if you're placing an access point where you don't have a power connection nearby.

What about the quality of the power adapter itself? We noticed that several access points still shipped with the bulky transformer-based adapters. Today, most devices come with the lightweight, SMPS-based adapters, which have a longer life because they consume lesser power and generate lesser heat. So, an SMPS-based adapter is always preferable over transformer based one.

Performance parameters

Here are a number of parameters that we considered for performance. For measuring all data transfers, we used NetIQ's Qcheck benchmark. The tests are as follows:

Max range: What's the maximum distance that a client can go from an access point without losing connectivity and also be able to transfer data? While doing this test, we ensured there were no obstructions between the access point and the client. We stopped measuring beyond 200 mtrs as only a

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Access Points showed connectivity beyond that distance.

Maximum range with max signal strength: While the signal strength of an access point reduces with distance, up till what distance can an access point keep it in excellent condition? The higher this is, the better. Here again we stopped measuring beyond 150 mtrs for same reasons as above.

Maximum throughput: For clients connected in close vicinity to the access point, what's the maximum throughput that it can offer? Surely, it's impossible to obtain 11 and 54 Mbps, the maximum theoretical limits of 802.11b and g standards, respectively. So, we measured the maximum that each access point could provide with a client when:

- It used a WiFi card from the same vendor.
- It used a third-party WiFi card. Most laptops shipping today are Centrino based, which means that they use an Intel WiFi card. For this test, we used a Centrino-based laptop.

Latency: We measured the average latency between the client and the access point while transferring some data. Here, lower latency is better.

Throughput with streaming data: This becomes important when you're using WiFi for applications that require a constant stream of data without any break., like voice and video apps. For this, we configured the test to maintain 1000 Kbps for 15 seconds.

Resistance to interference: The 2.4 GHz frequency band that's used by all these access points is susceptible to interference from other devices like cordless phones and Bluetooth. We checked how susceptible was an Access Point to such interference by measuring the throughput with a Bluetooth device in between.

A few tips Finally, here are a few tips to keep in mind.

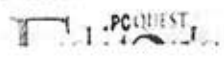
- Please check that the features mentioned on the packaging of your access point are actually there. In one access point we found the packaging said 256 bit WEP encryption, while it actually only supported 128.
- Before setting up an access point, read the instructions carefully. Some access points provide a MAC address that has to be entered during the installation.
- Place the access point where there's minimum interference from other devices. Usually, it's advisable to place it near the ceiling.
- Many access points specify how to position their antennas, so please check the manuals for that. Don't tamper with the antenna when it's working.
- Coexistence of 802.11g and 802.11b wireless clients on the same wireless network could slow down your network performance. So, when upgrading to 802.11g, also try to shift your clients to the same.

Lastly, there's a wide price variation that we found in all the access points, ranging from Rs 8,000 to Rs 12,000. So, choose carefully, depending upon the features you want.

Deha Shamsbery, Sanjay Majumder, Sushil Oswal

802.11b ACCESS POINTS

Link 1000 AP+ Rs 8,000/-



It is a combination of performance and price that makes this

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point the winner. It shines out in maximum throughput, which measured highest of the lot. If it's with its own WiFi cards, it's supposed to double the throughput. Rightfully, when tested with its own card, it resulted in 10 Mbps throughput, while with a Centrino laptop, it managed 5 Mbps. It even managed a 9 Mbps with interference from Bluetooth. It also gave the lowest latency. It was the second highest in streaming after Cisco. In features, it supports load balancing and fault tolerance. Overall, a good choice for enterprise networks. RQS#E75 or SMS 130575 to 9811800601

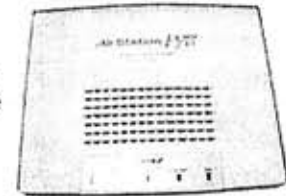
ISCO 1200 Rs 15,000/-

This was the most feature rich Access Point of the lot, and was also the second highest in performance. The only place where it took a beating was the high price tag of around Rs 34K, which was the second highest. In performance, this Access Point not only gave us the maximum range of about 216 mtrs, its connectivity was also rock solid. It also gave the best streaming throughput of 999 kbps, and worked very well with the Centrino based WiFi card. Coming to features, it had the largest number of security features of the lot, which makes it a good choice where WiFi security is of prime importance. Plus, it had lots of management and monitoring features, which give exhaustive analysis of your wireless system. It was amongst the few to support pseudo VLANs for added security. RQS#E78 or SMS 130578 to 9811800601



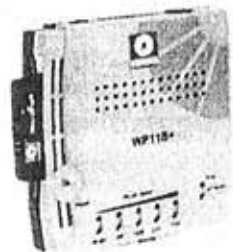
Buffalo WLM-L11G Rs 27,929/-

This is a new entrant in the Indian wireless market and was found to be the most feature rich of the lot, after Cisco and 3Com. It has extensive security features with advanced encryption methods. This was the only Access Point to have all the three features: Load balancing, fault tolerance and power over Ethernet. Again, it was the only one to support the Spanning Tree Protocol. Unfortunately, the Access Point wasn't shipped to us with an antenna, which could possibly be the reason why the maximum range it gave us was only about 55 mtrs, lowest of the lot. It did fine in the other tests. RQS#E76 or SMS 130576 to 9811800601



Compaq WP11B+ Rs 8,000/-

This is a basic Access Point with an average features set and performance. Perhaps that's also why it's the lowest priced of the lot, making it a good buy for small offices. It's maximum range was found to be good at about 180 mtrs, and maximum range with excellent signal strength was also among the best at 145 mtrs. However, it was more vulnerable to interference from Bluetooth devices than the rest. Its throughput dropped from 5 Mbps to 2 Mbps when we introduced an active Bluetooth device in between. Features wise, it only supports 802.11b, so it can't be upgraded to 802.11g. On the positive side, it supported the maximum number of modes of operation, making it a very flexible device. The Access Point was shipped with an external antenna to increase the wireless coverage. And it offers a channel selection option for different countries. This was also one of the few Access Points to support Pseudo VLANs. RQS#E77 or SMS 130577 to 9811800601



AX 910 ABO Rs 9,500/-

This is an overall average Access Point in performance, price, as well as features. In performance, it managed to give a maximum range of about 105 mtrs. However, we noticed that its WiFi card was highly sensitive to direction. At longer distances, it remained connected as long as the WiFi card was facing the Access Point, but dropped connection the moment it was moved away. While maintaining connection, it managed to give excellent signal strength even up to 70 mtrs. This Access Point was susceptible to interference from Bluetooth, wherein its rate dropped from 5 to 2 Mbps when we reduced the interference. The Access Point supports power over Ethernet, but the



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injector adapter is optional. It supports MAC and Ethernet based filtering, and has quite a few features for controlling traffic in the latter option. There is also a feature called association control where you can limit the number of clients that can be associated with the access point. RQS#E79 or SMS 130579 to 9811800601

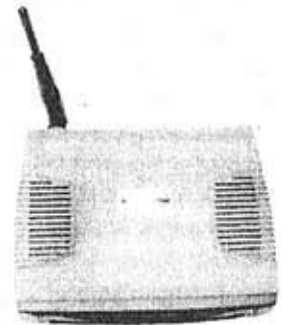
3COM 8200 Rs 52,150/-

This Access Point was among the top three in performance. It comes with a decent set of features, but loses out in price. The first two parameters make it suitable for enterprise deployment, but at Rs 52k, it was the most expensive of the lot. We managed to get a signal even at a distance of 205 mtrs, and excellent signal strength in 150 mtrs radius. You need to position the antenna at 45-degree angle to the Access Point for optimal performance. It managed to provide good throughput to our client even with interference in between. The Access Point is upgradeable to 802.11g, and supports power over Ethernet. The software bundle includes 3C Daemon TFTP/FTP server and Wireless Infrastructure Device Manager. There's also a 30-days trial copy of 3Com Network Supervisor. Plus, it has some decent management features such as multi-level log file and an SNTP (Simple Network Time Protocol) server. Decent security features are also in the offing. RQS#E80 or SMS 130580 to 9811800601



Net4 India Long Range Rs 9,800/-

This was the second cheapest Access Point of the lot but, at the same time, was simple in features compared to the rest. Being a barebones Access Point makes it suitable only for smaller offices, or a company wanting to provide basic wireless connectivity. It did support the maximum number of channels though, and its maximum range for wireless connectivity lives up to its name giving 200 mtrs. Its maximum range with excellent signal strength was also great at 160 mtrs. Its maximum throughput was average both with its own WiFi card and Centrino. The Access Point was quite susceptible to interference from a Bluetooth signal, since its throughput dropped considerably when we added the interference. RQS#E81 or SMS 130581 to 9811800601



NetGear ME 103 Rs 15,000/-

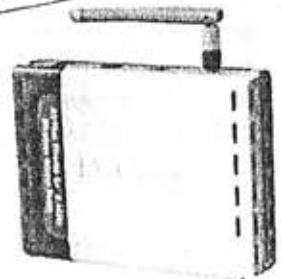
Like the Access Point from Dax, this one is also average in performance, features and price, but there are a couple of places where it stands out. For one, it gave us the second highest range of the lot at around 210 mtrs. Then, this was also amongst the lowest priced Access Points of the lot, costing just Rs 15k. It supports both MAC based filtering and RADIUS based authentication for security. Also, it was among the few to support both NetBIOS and WINS protocols, which makes it easy to fit into a Windows network. One small crib though was the power adapter, which was bulky and had square pins. Though, it came with a round pin add-on adapter for this it's still inconvenient while plugging in. RQS#E82 or SMS 130582 to 9811800601



802.11g ACCESS POINTS

Link DWL-2000AP+ Rs 8,500/-

D-Link also emerged winner in this category, owing to its performance, which was best in the lot. Also, it was the best priced. In performance, the Access Point gave the maximum connectivity range at 200 mtrs. Also, it maintained its signal strength in this range. It also did very well in the streaming test, which means it's good for sustained transfer rates. Its resistance to interference was also pretty good, with the throughput dropping only by 2 Mbps from 13 to 11 when the interference was added. On the features front, it supports four different modes of



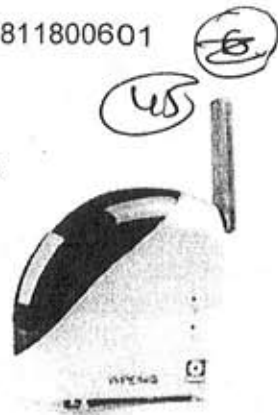
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...n, making it very flexible in terms of application. RQS#E83 or SMS 130583 to 9811800601

Compex VPL 54G Rs 9,500/-

Good performance and pricing makes this the runner up in this category. It had the second highest connectivity range of about 160 mtrs and gave the highest throughput of the lot at 14 Mbps. In features, it supports the highest number of modes of operation. One interesting mode here is that, it can be used as a basic WiFi card simply by connecting it to a PC's ethernet port with an ordinary cross-over cable. In security, it supports both MAC based filtering as well as RADIUS server based authentication. Overall, a good choice given its price and performance. RQS#E84 or SMS 130584 to 9811800601



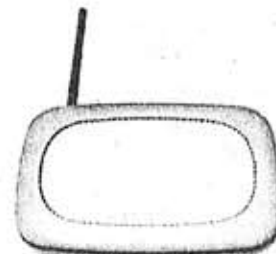
Buffalo WL M2 Rs 37,036/-

This was the most feature rich of the lot, but at the same time, the costliest of all 802.11g Access Points. It supports load balancing, fault tolerance and power over Ethernet. The injector power over Ethernet is optional. It supports both bridging and routing operation modes plus, MAC address filtering and RADIUS server based authentication for security. Like its counterpart in 802.11b, this one also wasn't shipped with an external antenna, which could possibly be why it suffered in the maximum wireless range and the other performance tests. RQS#E85 or SMS 130585 to 9811800601



NetGear WG602 Rs 9,500/-

This was an overall average Access Point in performance and features, but pretty good in pricing. It was the second cheapest of the lot, along with the Compex. It has basic Access Point features, supporting only the Access Point mode of operation, and MAC address based filtering as the only additional security mode besides the 128-bit WEP encryption. In performance, it gave a decent range of 160 mtrs, and the range with excellent signal strength was also good at 85 mtrs. While measuring throughput, we noticed that when the Access Point was configured to work in 'Best Data Rate' option, we could only get about 5 Mbps throughput from a wireless client. However, when we set the data rate to 54 Mbps, it rose to 8 Mbps. Interestingly, we noticed the reverse situation in the other 802.11g Access Points. The NetGear also measured very low latency, which is good. Overall, given the price, it's a good choice for small offices. RQS#E86 or SMS 130586 to 9811800601



Com 11G WL525 Rs 13,930/-

This Access Point was a good performer similar to the runner up from Compex in this category. It gave a maximum connectivity range of around 200 mtrs, while its maximum throughput at excellent signal strength was 13 Mbps. Also, its resistance to interference was also pretty high, as its throughput only dipped 1 Mbps. It also had the best latency of only 2 ms, and even works well with ethernet based WiFi cards. It didn't really impress us in features though, as it had a basic features set. Overall, it was the second costliest in its category. However, one good thing about it is that it was the only one with unlimited lifetime warranty. RQS#E87 or SMS 130587 to 9811800601



WiFi Access Points' Performance Results

WiFi Access Points' Performance Results

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SUPPLIED UNDER RTI ACT . 2005

802.11b Access Points

<http://www.pcquest.com/cgi-bin/printer.asp?id=57234>

B Kumar

11/7/2006

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	Max wireless range	Max range with excellent signal strength	Max throughput	Latency	Streaming rate	Throughput with bluetooth interference	Throughput with Intel PRO wireless
	mtrs	mtrs	Mbps	ms	kbps	Mbps	Mbps
Com 8200/8500	206	150	4.5	4	532	4.1285	5
uffalo WLM-L 11g	56	50	5	4	564	4.219	5
ompex WP 11 B+1B	1	145	5	4	554	2	5
ax 910 ABO	103	70	5	4	510	2	5
-Link DWL-1000 AP+	200	150	10	3	980	9	5
et Gear ME 103	209	48.5	4.5	4	490	4	5
isco 1200	216	57	6.5	3	999	5.4	6
et4India Long Range AP	200	160	5	5	480	0.3	5
02.11g Access Points							
ompex WPL 54G	161	48	14.4	4	954	11	
Com 11g wl 525	147	53	12.5	2	428	11.5	
-Link DWL-2000AP+	200	200	13	2	1000	11.4	
ffalo WL M2	58	47	7	8	345	2	
et Gear WG602	160	85	8	2	985	8	

'iFi Access Points' Features

Model			WiFi Access Points' Features					
Model	Price	Contact	Operation	Security	S/W	Maximum	Mgmt	Power Adapter
Com 8200	52,150	3Com India, Delhi Ph: 26293177 Fax: 26236509 E-mail: upender_singh@3com.com	Not mentioned	Radius server, local bridge filter, MAC based, PPPoE MD5, TTLS, Peap	3C Daemon NW Supervisor	13	System Log error, message, SNMP Event log, Spanning tree, station status	PoE Injector
Buffalo LM-L 11G	27,929	Japan Nepal ICT, Nepal Ph: 977-1-4770789, Fax: 977-1-4771306, E-mail: rtakatsu@buffalo-india.com	AP, Repeater, AP-AP Bridging	MAC, Radius, MIC, TKIP, IBSS	Air station, client manager	11	AP Info, log file, transfer packet condition	SMPS
Compex WP 11 B+	8,000	Rashi Peripherals, Mumbai Ph: 28221013, Fax: 28221012 E-mail: compex@rptechindia.com	AP, AP client, Broadband Gateway, Wireless Ethernet Adapter, Wireless Bridge Link	MAC, Radius	NP find utility software	13	Log file, stastics and ap info	SMPS
Link WL 1000 +	24,985	Dax Networks, Chennai Ph: 24323558, Fax: 24357267 E-mail: sujit@daxnetworks.com	AP, Point-to-Point bridging, AP client	MAC, Ethernet based	Nw mgmt client monitoring utility	11	System Log and complete information of ap	SMPS
Link WL 1000 +	8,000	D-Link India, Mumbai Ph: 26526696, Fax: 26528914 E-mail: sales@dlink.co.in	AP, Point-to-Point and Point-to-multipoint bridging, wireless client, wireless repeater	MAC, Radius	AP Manager	13	Log File, Stastics, Device Info File	SMPS
et Gear ME 103	15,000	Micro Systems Enterprises, Delhi Ph: 51606590 Fax: 26434346 E-mail: rkbatra@mseiinfo.com	AP, Point-to-Point and Point-to-Multipoint bridging	Radius, MAC, EAP	Music software, N/w tutorial	13	Stastics info, Activity log and AP info	Transformer
isco onet 1200	34,543	Proactive Data Systems, Delhi Ph: 26961588, Fax +91-011-26851698 E-mail: virender@proactive.co.in	AP, Repeater	TKIP, CKIP, CMIC, CKIP+ CMIC, TKIP+ WEP, MAC, Radius Server	Wireless Mgmt s/w	11	Event Log, Stats, Error info	SMPS
et4India 11g	9,800	Net 4 India, Delhi Ph: 26104192, Fax:	AP, Client bridge	MAC based filter	AP Config	14	AP status	Square Pins, Transformer

://www.pcquest.com/cgi-bin/printer.asp?id=57234

Pannar

11/7/2006

Head, ISC

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26102187 E-mail:
infohps@net4india.net

Utility

43

8

802.11g Access Points

Compex WPL 54G	9,500	Rashi Peripherals, Mumbai Ph: 28221013, Fax: 28221012 E-mail: compex@rptechindia.com	AP, AP Client, Gateway, Wireless Routing Client, Wireless Ethernet Adapter	MAC, Radius	NP find utility software	13	Log file, statsics and ap info	SMPS
3Com 11g WL525	13,930	3Com India, Delhi Ph: 26293177, Fax: 26236509 E-mail: upender_singh@3com.com	AP, Client Bridge	MAC, WPA	AP Discovering Program	13	Log,Stats	Square Pins, Transformer
D-Link DWL 2000 AP+	8,500	D-Link India, Mumbai Ph: 26526696, Fax: 26528914 E-mail: sales@dlink.co.in	AP, Point-to-Point and Point-to-Multi-point bridging, Wireless Client	MAC, Radius, WPA, TKIP	AP Manager	13	Log File, Statistics, Device Info File	SMPS
Buffalo WL M2	37,036	Japan Nepal ICT, Nepal Ph: 977-1-4770789, Fax: 977-1-4771306, E-mail: rtakatsu@buffalo-india.com	AP, Bridging, Routing	MAC, Radius	Air station, client manager	11	AP Info, log file, transfer packet condition, spanning tree protocol	SMPS
Net Gear wg 602	9,500	Micro Systems Enterprises, Delhi Ph: 51606590 Fax: 26434346 E-mail: rkbatra@mseinfo.com	AP Mode	MAC	Music software. N/W tutorial	13	Only AP info is available	Square Pins, Transformer

Best amongst all
SMPS
Bhatnagar
Head, ISC

LB: Load Balancing, FT: Fault Tolerance, PoE: Power over Ethernet, DRS: Dynamic Rate Shifting, ACS: Automatic Channel Selection *Optional.
All access points support minimum 128-bit WEP encryption

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सूचना का अधिकार अधिनियम-2005 के अन्तर्गत पदत

सुप्लाइड अन्डर कन्ट्रॉल
SUPPLIED UNDER CONTRACT

Memorandum of Understanding

This Memorandum of Understanding ("MOU"), dated 18th October, 2006 is made between Indian Institute of Technology Roorkee, an Institution of National Importance created by an act of Parliament (referred as "IIT ROORKEE") and Intel Technology India Pvt. Ltd. having its registered office at 136, Airport Road, Bangalore 560 017 (referred as "Intel"). (IIT "Party" and collectively as "Parties").

IIT ROORKEE has been on the forefront in promoting high standards across the Indian Technical Education system. IIT ROORKEE has created value by reaching out to address the needs of the student community, teacher community and the society at large.

Intel is a subsidiary company of Intel Corporation. Intel Corporation has been developing technologies enabling the computer and Internet revolution that are changing the world. Founded in 1968 to build semiconductor memory products, Intel Corp. along with its subsidiaries, not only provides hardware and software solutions but is also a leading player in the wireless and networking space.

This MOU is drawn out between IIT ROORKEE and Intel for collaborating on effective use of Information and Communication Technology (ICT) in the technical education system. IIT ROORKEE & Intel can synergize in their initiatives and to that end plan to work together for the development of the Technical Education System at the Institute by effective deployment of ICT.

This MOU is intended to outline the general framework for collaboration between the Parties. As such, the actual details of each specific collaboration and/or transaction will be determined by Parties' mutual agreement pursuant to applicable definitive agreement(s). The initial Purpose of this collaboration is to outline and describe certain goals, strategies and objectives of the Parties to conduct co-operative activities to establish and promote a mutually beneficial relationship after conducting co-operative activities.



Areas of Mutual Cooperation

1. Fostering the spirit of research and development in areas of common interest such as application of ICT in education, technology management, material science, VLSI design, etc.
2. Exchange of faculty and students of IIT Roorkee and the professionals of Intel for training, research and education.
3. Showcasing of emerging technologies in the broad area of ICT.
4. Organizing jointly conferences / seminars / workshops / brainstorming sessions/ training programmes on subjects of common interest.
5. Intel will assist IIT ROORKEE to deploy wireless networking in various campuses of IIT Roorkee.
6. Intel will make available free online access to Technology @ Intel journals to the students and faculty of IIT Roorkee on a continuous basis.

Both Parties will work out the specific detailed logistics to execute this program over the next three years. Each party shall bear its own costs in relation to the role to be performed under this MOU.

Confidentiality: Confidential information exchanged between the Parties concerning the subject matter of this MOU shall be governed by the Corporate Non-Disclosure Agreement ("CNDA") bearing number 2377277, in effect between the Parties. Except as expressly stated herein, neither Party shall use the other party's name in advertisements, without the prior written consent of the other Party.

Termination: Either Party may, without any termination obligations and liability, terminate this MOU for any reason by providing notice in writing of at least 90 days to the other Party. In case of the termination of the MOU, all assets created for the purpose of pilots under the MOU jointly by both the Parties will belong to the institutions where these are physically deployed.

[Handwritten signatures]

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No Legal Obligations: The Parties agree that provisions contained in this MOU do not create any legal obligations between the Parties, save for the confidentiality provisions in this MOU.

Relationship of the Parties: The Parties herein are independent entities. This MOU does not create any agency, partnership, joint venture or any other business relationship between the Parties.

Non Exclusivity: Nothing in this MOU shall mean or shall be construed to mean that either Party is at any time precluded from having similar arrangements with any other person or third party, subject always to maintaining confidentiality obligations stated herein.

Assignment: This MOU cannot be assigned to any third party except the legal successor of either party, without the prior written consent of the other Party.

Limitation of Liability : Except for claims that may arise pursuant to Confidentiality clause, in no event shall either Party be liable to the other for any damages including, without limitation, direct, speculative, indirect, incidental, special or consequential damages in connection with this MOU.

Modifications: No variations, modification or alterations of any provisions of this MOU shall be effective unless made with the prior written agreement of the Parties.

Governing Law and Jurisdiction: This MOU shall be governed by and construed in accordance with the laws of India.

Nodal Officers

Each party will communicate in writing the name and contact details of a nodal officer for the purpose of operating this MOU to the other party.



The signatures of the Parties below indicate their agreement with the foregoing MOU.

IIT ROORKEE

By [Signature]

Name: Dr. H.K.Verma

Designation: Dy. Director
IIT Roorkee, India

INTEL Technology India Pvt. Limited

By [Signature]

Name: Munesh Jalota

Designation: Director
Intel Technology India
Pvt. Ltd., Bangalore

Witness:

[Signature]
(V. K. NANGIA)

Witness:

[Signature]
CHANDY BILUQU

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D-link AirPremier® DWL-3200AP (790069273544) 802.11b/g Wireless Access Point

\$182 - \$300

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3Com (3CRWEASYG73) (3CRWEASYG73US) 802.11b/g Wireless Bridge

\$699 - \$1480

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Lowest in cost. P. Suman Head, ISC

Key Features

Type	Wireless Access Point	Wireless Access Point	Wireless Bridge
WLAN Standards	IEEE 802.11g/b	IEEE 802.11g/b	IEEE 802.11g/b
802.11b Data Rates	11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps	11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps	11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps
802.11g Data Rates	54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 28 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps	108 Mbps, 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 28 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps	54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 28 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps
Operating Frequency	2.4 GHz	2.4 GHz	2.4 GHz
Modulation	OFDM • CCK • QPSK • BPSK • DBPSK • DQPSK • 16QAM • 64QAM • DSSS	OFDM • CCK • QPSK • BPSK • DBPSK • DQPSK • 16QAM • 64QAM • DSSS	OFDM • CCK • QPSK • BPSK • DBPSK • DQPSK • 16QAM • 64QAM • DSSS
Security	WEP • WPA • TKIP • AES • LEAP • TLS • TTLS • PEAP • 802.1x	WEP • WPA • AES • 802.1x • Wireless MAC Address Filtering	WEP • WPA • TKIP • AES • 802.1x • Wireless MAC Address Filtering
WEP Encryption Length	40 bit (=64 bit) • 128 bit	40 bit (=64 bit) • 128 bit • 152 bit	40 bit (=64 bit) • 128 bit

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(37) (2)

Max. Cable Length	300 ft. / 90 meter	325 ft. / 100 meter	Not available
Max. Cable Length (Cat 5e)	1300 ft. / 395 meter	1640 ft. / 500 meter	Not available
Max. Transmit Power	Not available	20 dBm	Not available
Max. Transmit Power	20 dBm	20 dBm	Not available
Other Features			
Operating Channels	802.11b/g: 11 (North America), 13 (Europe), 14 (Japan)	802.11b/g: 11 (North America), 13 (Europe), 14 (Japan)	802.11b/g: 11 (North America), 13 (Europe), 14 (Japan)
No. of 10/100 Ports	Not available	Not available	1
Antenna Type	Internal / Integrated Antenna x 1	Detachable Antenna x 2	Internal / Integrated Antenna x 1
Led Indicators	Not available	Power • 802.11b • 802.11g • Wired Lan	Power • Activity • Wired Lan
Remote Management Protocol	SNMP • Telnet	HTTP • Telnet • SNMP 3	HTTP • Telnet • RMON • SNMP 2 • SNMP 1 • SNMP 3
DC Power	Not available	48 Volt	Not available
Additional Features	MAC Address filtering • DHCP Server • PoE (802.3af Power over Ethernet)	MAC Address filtering • PoE (802.3af Power over Ethernet)	MAC Address filtering • DHCP Server • PoE (802.3af Power over Ethernet) • FireWall / VPN
Dimensions			
Width	4.1 in.	6.1 in.	13.78 in.
Depth	1.5 in.	1.77 in.	15 in.
Height	8.1 in.	10.93 in.	2.75 in.
Weight	0.65 lb.	Not available	5.6 lb.
Warranty			
Warranty	1 Year	1 Year	1 Year
Miscellaneous			
MPN	air-ap1121g-a-k9	Not available	3CRWEASYG7307
UPC	Not available	790069273544	Not available
Product ID	21370350	23794689	24760415

Signature: *[Handwritten Signature]*
 Head, ISC

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Technical Committee report on wi-fi network in Student HostelsBackground

Institute decided (vide Deans Committee meeting dated 17th July 2006 – Annexure 1) to go for establishing a secured WiMax/wi-fi based network in the campus so as to modernize network access and to make the Internet reach individual rooms in student hostels. In present context, Internet has become part of basic infrastructure which is an essential tool for all scientific studies and research. Hence a WiMax committee was constituted (vide letter no Esstt(A)/1468/D-63(II) dated 08.08.06) to plan and implement wireless access in hostels by 31st December 2006 (Annexure 2).

The Technical Committee-cum-Purchase Committee was constituted vide note of Head ISC approved, by Deputy Director on 2/11/06 to decide on the purchase of requirements for installing wi-fi access in student hostels (Annexure 3).

The WiMAX committee approached M/s Intel India Ltd. because they are a leading concern in WiMAX Technology. The company finally agreed to provide free technical consultancy in the project as per MOU with them (Annexure 4).

Through various meetings with experts from Intel, broad specifications of major components required for establishing wi-fi network in student hostels were drawn. The main actives required were identified as (i) Access points, and (ii) Network switches/routers. Passives were also identified.

The Access Points were required to have the following:

- (a) 2.4 – 2.4835 Ghz band and 802.11g compatible
- (b) Power over Ethernet feature is desirable (to save wiring effort and thus save on implementation time)
- (c) Remote manageability

The Technical Committee met on 7th November 2006.

Technical Committee Recommendations

1. Considering the urgency of work and the criticalness of compatibility of various components, the committee decided that **purchase of all actives and their accessories be restricted to one brand only.**
2. The committee considered some standard brands such as Cisco, D-Link and 3-Com from the points of view of (a) technical features (b) cost (c) availability of large quantities with easy delivery schedules and (d) technical support available in India. In this context, the committee also searched data over the Internet to zero-in on a manufacturer.

Annexure - 5

PCQuest in an issue (copy enclosed) has made a comparative study of several brands for wi-fi products. The study considers several parameters such as security, wireless standard, management features, performance benchmarks, resistance to interference etc. Considering the combination of performance and cost, the PCQuest study concludes that **D-Link access points are the overall winners (Annexure 5). Among the prices mentioned in the article, the prices of D-Link are lowest for access point.**


Head, ISC

As the access points will constitute the major cost of the material requirements, the study of PCQuest regarding access point is important.

The Committee also deliberated the issue with senior executives of Intel (Mr. Chandramouli Rao and their wi-fi expert Mr. Arun). The opinion of Intel regarding the choice of manufacturer for active components and accessories is greatly in favour of D-Link. They also helped in identifying the part-numbers of access points and switches that will suit the needs of project. Hence the committee recommends purchase of access points, network switches, cat 6 cables, management software etc. all from D-Link. BOM with specifications has been accordingly prepared with the help of Intel (Annexure 6).

- 3. As the institute intends to put up the wireless access by the beginning of next semester in response to great demand demand from UG, PG and research students and that the director has promised students a very fast action on wi-fi implementation, it is not possible to meet the time target if the purchase is made by following the tendering process as per rules.

The Committee therefore recommends the following:

- (a) All active components, passive components and network management software be purchased from a single source to ensure compatibility.
- (b) D-Link make equipment is the best choice on the basis of features, cost, availability and technical support.
- (c) Purchase be made directly from the manufacturer to get best prices.
- (d) Having decided to purchase from the manufacturer only and in view of tight time-schedule, tendering processing is neither meaningful nor possible.
- (e) The purchase committee may obtain quotation from M/s D-Link (India) Ltd. and negotiate with them rigorously to get best prices.

P.S. Accesspoint Model DVL3200AP, is also 802.11g compatible as the DVL-2000 AP however it has the additional feature of PoE hence recommended

[Signature]
(Prof. Padam Kumar)

[Signature]
(Prof. Vinod Kumar)

[Signature]
(Prof. V.K. Nagia)
[Signature]
Head, ISC

[Signature]
(Dr. Navneet Gupta)

Enclosures: Annexures 1 to 6

[Signature]
Head ISC
Head, ISC

Purchase cum negotiation committee report on purchase of wi-fi requirements for student hostels

1. The committee obtained quotations from D-Link for the bill of materials prepared by technical committee in consultation with Intel.
2. Two representatives (Mr. Sanjeev Aggarwal, Sr. Manager Sales and Mr. Ranjeet Kumar, Sr. Network Consultant) from Delhi office of D-Link India came to Roorkee on 16th November, 2006 at 12.00 pm and submitted the quote for the bill of material (Annexure I). The various technical features of different items were discussed with them and it was confirmed that the access points and switches are compatible with one another. The suitability of models of all items for the requirements of the project was also reconfirmed.
3. As per the quote of M/s D-Link India in annexure I, the total cost for the quantities given by us was Rs. 57,42,432. The committee negotiated with the representatives regarding pricing for educational institutions. Although the representatives informed that the pricing given was that for educational institutions, the committee negotiated further and it was decided that Mr. Sanjeev Aggarwal will talk to their CMD in Mumbai next day and submit a fresh proposal after meeting CMD in Mumbai.
4. The committee also talked to the CMD Mr. Naik and apprised him of the strategic importance of supporting an institution like IIT Roorkee. As a result, a second quote was received by e-mail on 17th Novemembr. 2006 (Annexure II). In this quote, the overall price of materials was reduced to Rs. 51,73,960. The CMD was requested to send Mr. Sanjeev Aggarwal to Roorkee again for further negotiations.
5. A second meeting with Mr. Sanjeev Aggarwal and Mr. Shitij Uppal, Strategic Alliance Manager was held in Institute Computer Center at 11.30 am on 22nd November, 2006. In this meeting further negotiations were done and after talking to his Finance Director Mr. Sanjeev Aggarwal submitted a third quotation (Annexure III) where the total price was further reduced to Rs. 49,94,251 and agreed to absorb the taxes against suitable forms. In addition they agreed to provide the proprietary network management software free of cost. Some terms and conditions regarding payment and delivery schedule etc. were also discussed and the quote at Annexure III contains all those terms and conditions.
6. The purchase-cum-negotiation committee resolves that the final price of Rs. 49,94,251 of the original bill of materials is as per quotation dated November 22, 2006 at Annexure III. Further, the delivery will be in two parts to be specified in purchase proposal and payment also will be in two parts against satisfactory supply of material.
7. The committee reviewed the quantity requirements and reducing the spare cushion in quantities. revised the bill of material as given in Annexure IV. The total cost of purchase as per revised bill of materials and the rates in quote at Annexure III is **Rs. 39,78,680**

[Signature]

24/11/2006-सूचना के अधिकार अधिनियम-2005 के अन्तर्गत प्रस्तुत
सुचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रस्तुत
Head, ISO

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रस्तुत
SUPPLIED UNDER RTI ACT -2005

8. The committee also took note of a price-cum-feature comparison for Access Points of Cisco, D-Link and 3-Com available on a website www.shopping.com which shows that D-Link price of the model DWL-3200 AP is lowest (\$182 - \$300) – Annexure V. The price negotiated with D-Link for The same model of Access Point is lower than the lowest of the range given.

**REVISED BILL OF MATERIAL
FOR WI FI ACCESS IN STUDENT
HOSTELS**

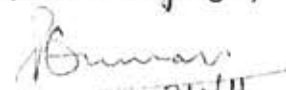
Date: 23/11/2006

Sr. No.	Part Code	Description	Qty	Unit Price	Total
1	DWL-3200 AP	Wireless Access Point	385	INR 6,300	INR 2,425,500
2	DES-1316	16 Port 10/100 L2 Manageable Switch (8 port POE)	64	INR 13,780	INR 881,920
3	DES-3828	24-port 10/100 Mbps plus 4 Gigabit ports Layer	8	INR 32,118	INR 256,944
4	DEM-310GT	1-port mini-GBIC LX Single-mode Fiber Transceiver (up to 10km, support 3.3V power)	8	INR 7,102	INR 56,816
5	DES-3526	24-port 10/100Mbps with 2 Combo 1000Base-T/Mini-GBIC portsL2 Managed Stackable Switch	0	INR 14,659	INR 0
6	DC6CAUTP4P3X	Solid Cable Cat 6, 4 pair, UTP - 305m	65 meters	INR 4,236	INR 275,340
7	DFBOX06RXXX	LIU 06 PORT RACK MOUNT BLK	8	INR 1,915	INR 15,320
8	DFPCD2LCSC01	PATCH CORD LC-SC MM(50) DUPLEX LENGTH- 1m	48	INR 1,111	INR 53,328
9	DFCOSCXSPR09	Connector SM SC type with 0.9mm boot	48	INR 140	INR 6,720
10	DFPANXXA06NPBR	1x6 unloaded front adapter module	8	INR 51	INR 408
11	DFADSCCTYPXZS	ADAPTOR SC SM -ZR-SLEEVE	48	INR 133	INR 6,384
					INR 3,978,680


24/11/06
(Dr. Navneet Gupta)


(Prof. Vinod Kumar)


(Prof. V K Mangia)


24/11
(Prof. Padam Kumar)
Head, ISC

ABSTRACT FROM THE 144th MEETING OF THE DEANS' COMMITTEE HELD ON 17th JULY 2006.

RESOLUTION

Action taken on this Minute must be reported to the MEETING SECTION WITHIN one week.

6.	<p>Matter related to Internet Connectivity in the hostels rooms: The Dy. Director will be the Chairman and Prof. Padam Kumar will be the Convenor of the Wi-MAX + hostel rooms connectivity committee. DOSW to be a part of the existing Committee. The work for providing internet connectivity in the hostel rooms should be completed by December 2006.</p> <p>To be notified by D.R.(A).</p>	<p>Dy. Director</p>	<p>Prof. Padam Kumar/ DOSW</p>
----	--	----------------------------	---

1. Dy. Director
2. Prof. Padam Kumar, Head, ICC

(Signature)
25/7/06

कार्यवाहक अधीक्षक / Ofg. Superintendent
मोटिंग अनुभाग / Meeting Section
भा.प्रौ.सं. रुड़की / IIT Roorkee

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT-2005

Wi-Max file

(Signature)
25/7

(Signature)
25/7/06

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
INFORMATION SUPERHIGHWAY CENTRE
ROORKEE- 247 667, Uttaranchal (India)

29

PURCHASE ORDER***(Order will be valid only when it is signed by Head & CPO both)**

Order No.: ISC/P-145 /2007/177

Dated: Dec. 20, 2007

M/S D-Link India Ltd.
L-5, Verma Electronic City
Verma Plateau
Goa-403722

Sub.: Amended OrderRef.: Our Order No. ISC/P-145/20071697 dated Nov. 30, 2007

Dear Sirs,

The order referred above is hereby cancelled and this fresh order after correcting the unit amount of the item No. 3 is hereby placed for the supply of the following item(s) on the terms and conditions given below. In future only this order may be referred.

S.No.	Product Code	Product Description	Unit Rate (INR)	Qty	Total	Unit Rate (USD)*
1	DWL-3200AP	802.11g indoor wireless access point+ PoE (Business class)	5,166.00	165	8,52,390.00	126.00
2	DES-1316	16 port web smart switch with 8 PoE ports	11,299.60	27	3,05,089.2	275.60
3	DES-3828	24-port 10/100 Mbps plus 4 Gigabit ports Layer	26,336.76	8	2,10,694.08	642.36
4	DEM-310GT	1-port mini-GBIC LX single-mode Fiber Transceiver (up to 10km, support 3.3V power)	5,823.64	8	46,589.12	142.04
Grand Total					14,14,762.40	

*The conversion factor is taken @41 as the same is standard for the month.

Say 14,14,762.00

Amount in Words: Rs. Fourteen Lakhs Fourteen Thousand Seven Hundred Sixty Two Only

Terms & Conditions:- as per existing purchase regulations.

- FOR, Roorkee
- 100% advance thru site LC Valid for 90 days from the date of P.O.
- Other Taxes: Custom duty as applicable against custom duty exemption Certificate by IITR
- The prices are as per the Rs. / USD conversion. The actual price will be as Applicable at the time of delivery.
- D-link India will pay tax (custom duty) on behalf of the IITR and claim the same From IITR.
- All the relevant form and certificates for the customs clearance may be provided by IITR.
- The consignment will be imported by D-link India Ltd. on behalf of IITR
- Delivery: 6-7 weeks from the date of receipt of purchase order.
- Freight, Insurance @ 8% extra,
- Warranty:
 - Item 1-2 : 3 years
 - Item 3-4 : 2 years
 - Special warranty: Earlier supplied items vide P.O. No. ISC/P-130/2006/1486 dt: Dec. 1st 2006 and ISC/P-130/2007/1587 dt: March 28th 2007: additional 1 year warranty on all active components
- Validity: prices are valid till 25th March 2008.
- Arbitration clause and other terms & conditions as per Annexure - A.

Ramnar
19/12
Head of Department ✓

COPY FOR PRE-AUDITING

CENTRAL PURCHASE OFFICER

May please get the purchase order (as above) pre-audited and return the enclosed final order after signing. Chargeable grant MHR01-78-124-802.

पूर्व लेखा परीक्षा
Pre-audited

Ramnar
19/12
Head of the Department ✓

Pre-audited and returned to Head of the Deptt.

J. Kaman
20/12/07
केन्द्रीय क्रय अधिकारी
Central Purchase Officer
True copy
Attested

CENTRAL PURCHASE OFFICER

*Note: This copy of purchase order will be retained by the Deptt. and copy on Form No. CPC-D-1 will be dispatched.

C:\mydocuments\Purchase Order\ISC/P-145/2007/177

सुप्लाइड अन्डर एक्टिविटीयम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT - 2005

Ramnar
18/3/2008
Lt Col A K Srivastava (Retd)
Registrar

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
INFORMATION SUPERHIGHWAY CENTRE
ROORKEE- 247 667, Uttaranchal (India)

28

PURCHASE ORDER*

(Order will be valid only when it is signed by Head & CPO both)

Order No.: ISC/P-130/2006/1587

Dated: March 28, 2007

M/S D-Link India Ltd.
L-5, Verma Electronic City
Verma Plateau
Goa-403722

Repeat order of the order No. ISC/P-130/2006/1486
dated Dec. 01, 2006 of ISC

Dear Sirs,

With reference to our order No. ISC/P-130/2006/1486 dated Dec. 01, 2006, we hereby place a repeat order for the supply of the following item(s) on the terms and conditions given below:

Sl. No.	Part Code	Description	Unit Price (in Rs.)	Qty.	Amount (Rs.)
1.	DWL-3200 AP	Wireless Access Point	6,300.00	10 Nos	63,000.00
2.	DES-1316	16 Port 10/100 L2 Manageable Switch (8 Port PoE)	13,780.00	5 Nos	68,900.00
3.	DES-3828	24-Port 10/100 Mbps Plus 4 Gigabit Ports Layer	32,118.00	8 Nos	2,56,944.00
4.	DEM-310GT	1 Port Mini-GBIC LX Single Mode Fiber Transreceiver (Up to 10 KM Support 3.3V Power)	7,102.00	8 Nos	56,816.00
Total					4,45,660.00

Amount in Words: Rs. Four Lakh Forty Five Thousand Six Hundred Sixty Only.

Terms & Conditions:- as per existing purchase regulations.

1. FOR: ISC, IIT Roorkee
2. Payment: 100% (towards the material supplied) within one week from the date of delivery by D-Link and inspection by IIT Roorkee
3. Delivery: 3-4 weeks.
4. Sales Tax: Included against from D.
5. Other Tax: Excise duty exempted against providing excise duty exemption certificate.
6. Warranty: One Year on active components (Sr. No. 1 to 4).
7. Arbitration clause and other terms & conditions as per Annexure – A.

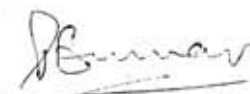
Central Purchase officer

Head of the Department

Copy to:

1. Professor In-charge (Finance) the expenditure chargeable to Grant No. MHR01-78-124-802
2. Central Purchase Officer

Pre-audited
J. Kumar
21/3/07
Central Purchase Officer


Head of the Department

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT - 2005

22

GENERAL TERMS AND CONDITIONS

- 1. ARBITRATION CLAUSE:** In the event of any difference of dispute arising out of this purchase, all efforts shall be made by both the Parties to settle the same amicably. Filing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996, by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
- 2. SALES TAX:** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill.
"CERTIFIED that the goods.....on which the sales tax has been charges have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.

CERTIFIED further that we.....
.....
.....(Our Branch or Agent).....
(Address).....
are registered as dealers in the state of.....under registration No.....
for purpose of Sales Tax".

- 3.** The materials will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
- 4. PAYMENT:** The payment shall be made on receipt of materials and checking at site (Unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
- 5.** Claims on account of Octroi, Railway/Motor freight, insurance charges, if admissible under the terms of the supply order and not included in the amount of the order, should be supported with vouchers, failing which the same will not be paid. If at the time of checking, it is found that the materials/equipment is in damaged condition, the supplier shall be informed about the same immediately. The supplier should then take appropriate action to lodge his claim with the insurance company. The Department shall, in no way, be responsible for any loss to the supplier due to damage/ breakage of material/equipment during the execution of this order.
- 6.** All correspondence regarding this purchase order should be addressed to the Head, ISC, IIT, Roorkee
- 7.** All disputes are subject to Roorkee jurisdiction only.

Pre-audited
-kumar
21/5/05
CENTRAL PURCHASE OFFICER
SUPPLIED UNDER RTI ACT - 2005

[Signature]
HEAD OF THE DEPARTMENT

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
INFORMATION SUPERHIGHWAY CENTRE
ROORKEE- 247 667, Uttaranchal (India)

C.P.C OFFICE
Dy No 2081
Dt. 112-06
(4)

PURCHASE ORDER*

(Order will be valid only when it is signed by Head & CPO both)

Order No.: ISC/P-130 /2006/ 3426

Dated: Dec. 01 2006

M/S D-Link India Ltd.
L-5, Verma Electronic City
Verma Plateau
Goa-403722

Dear Sirs,

With reference to your revised quotation dated November 22, 2006, we hereby place an order for the supply of the following item(s) on the terms and conditions given below:

Sl. No.	Description	Total Amount (Rs.)
1.	Items as per Annexure-B attached for wi fi based wireless net work	37,03,340.00
Total		Rs. 37,03,340.00

Amount in Words: Rs. Thirty Seven Lakhs Three Thousand Three Hundred Forty Only

Terms & Conditions:- as per existing purchase regulations.

1. FOR: ISC, IIT Roorkee
2. Payment: 100% (towards the material supplied) within one week from the date of delivery by D-Link and inspection by IIT Roorkee
3. Delivery: 10% of the quantity (Phase 1): 3-4 weeks Remaining 90% of the quantity (Phase 2): 4-5 weeks.
4. Sales Tax: Included against from D.
5. Other Tax: Excise duty exempted against providing excise duty exemption certificate.
6. Warranty: One Year on active components (Sr. No. 1 to 4).
7. Performance Bank Guarantee of 5% is to be given by the firm. on the time of supply
8. Arbitration clause and other terms & conditions as per Annexure - A.

[Signature]
Head of Department

COPY FOR PRE-AUDITING

CENTRAL PURCHASE OFFICER

May please get the purchase order (as above) pre-audited and return the enclosed final order after signing. Chargeable grant MHR01-78-124-802.

Head of the Department

Pre-audited and returned to Head of the Deptt.

[Signature]
CENTRAL PURCHASE OFFICER

*Note: This copy of purchase order will be retained by the Deptt. and copy on Form No. CPC-D-1 will be dispatched.

OFFICE COPY

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT -2005

REVISED BILL OF MATERIAL FOR WI FI ACCESS IN STUDENT HOSTELS

Date: 01/12/2006

No.	Part Code	Description	Qty	Unit Price	Total
1	DWL-3200 AP	Wireless Access Point	385	INR 6,300	INR 2,425,500
2	DES-1316	16 Port 10/100 L2 Manageable Switch (8 port POE)	64	INR 13,780	INR 881,920
3	DES-3828	24-port 10/100 Mbps plus 4 Gigabit ports Layer	8	INR 32,118	INR 256,944
4	DEM-310GT	1 Port mini-GBIC LX Single-Mode Fiber Transceiver (Up to 10km support 3.3V Power)	8	INR 7,102	INR 56,816
5	DFBOX06RXXX	LIU 06 PORT RACK MOUNT BLK	8	INR 1,915	INR 15,320
6	DFPCD2LCSC01	PATCH CORD LC-SC MM(50) DUPLEX LENGTH- 1m	48	INR 1,111	INR 53,328
7	DFCOSCXSPR09	Connector SM SC type with 0.9mm boot	48	INR 140	INR 6,720
8	DFPANXXA06NPBR	1x6 unloaded front adapter module	8	INR 51	INR 408
9	DFADSC TYPXZS	ADAPTOR SC SM -ZR-SLEEVE	48	INR 133	INR 6,384
					INR 3,703,340

R. Kumar

Pre-audited
R. Kumar
 11/25/06
 Officer

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
 SUPPLIED UNDER RTI ACT .2005

2/6

PURCHASE ORDER

(Order will be valid only when it is signed by Head & CPO both)

Order No.: ISC/P-146 /2008/1747

Dated: MAR. 07, 2008

M/S Samtech InfoNet Limited
4 & 14, DSIDC, Computer Complex,
Okhla Industrial Area, Phase-II
New Delhi - 110020

Dear Sirs,

With reference to your quotation/ proposal No. Samtech/Wireless/IITR/07/01 dated Nov. 24, 2007 and your letter No. Samtech/IITR/07/12/01 dated Dec. 06, 2007, we hereby place an order for the following work and Services on the terms and conditions given below:

Sl. No.	Particular of work	Unit Price (in Rs.)	Period of work	Amount (Rs.)
1.	System Integration and Professional Services for implementation of Wireless Network 1. Network Design based on RF survey 2. Installation, configuration and commissioning of a) WiFi Access Points, b) Network Switches, 3. Testing, 4. Project Documentation and reports	2,40,000.00 (with 45 days free on-site engineer support after installation and commissioning)	Within 45 days	2,40,000.00
2.	After Deployment Support	18,500.00 per month (for operation & maintenance services charges after the project implementation)	For 1 month*	18,500.00
Total				2,58,500.00

Amount in Words: Rs. Two Lakh Fifty Eight Thousand Five Hundred Only

* Initially for one month and may be extended if necessary at the same rate.

Terms & Conditions:- as per existing purchase regulations.

- FOR:** IIT Roorkee
- Payment:** For Sl. No. 1, 100% after completion of work and For Sl. No. 2, at the end of month against the submission of invoice.
- Delivery Period:** Within 45 days
- Sales Tax:** Nil
- Any Other Tax:** Service Tax as applicable
- Warranty:** On site engineer for 45 days
- Boarding & Lodging for Engineers:** (i) IIT Roorkee will pay during installation of the project.
(ii) During on site engineer period and subsequently firm will pay.
- Arbitration clause and other terms & conditions as per **Annexure - A.**

Central Purchase officer

Head of the Department

Copy to:

1. Professor In-charge (Finance) the expenditure chargeable to Grant No. MHR01-78-124-802.
2. Central Purchase Officer

पूर्व लेखा परीक्षा
Pre-audited

Head of the Department

केन्द्रीय प्रशासनिक अधिकारी
Central Purchase Officer

7 23

GENERAL TERMS AND CONDITIONS

1. **ARBITRATION CLAUSE:** In the event of any difference of dispute arising out of this purchase, all efforts shall be made by both the Parties to settle the same amicably. Filing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996, by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
2. **SALES TAX:** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill.
 "CERTIFIED that the goods.....on which the sales tax has been charges have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.

 CERTIFIED further that we.....

(Our Branch or Agent).....
 (Address).....
 are registered as dealers in the state of.....under registration No..... for purpose of Sales Tax".
3. The materials will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
4. **PAYMENT:** The payment shall be made on receipt of materials and checking at site (Unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
5. Claims on account of Octroi, Railway/Motor freight, insurance charges, if admissible under the terms of the supply order and not included in the amount of the order, should be supported with vouchers, failing which the same will not be paid. If at the time of checking, it is found that the materials/equipment is in damaged condition, the supplier shall be informed about the same immediately. The supplier should then take appropriate action to lodge his claim with the insurance company. The Department shall, in no way, be responsible for any loss to the supplier due to damage/ breakage of material/equipment during the execution of this order.
6. All correspondence regarding this purchase order should be addressed to the Head, ISC, IIT, Roorkee
7. All disputes are subject to Roorkee jurisdiction only.

CENTRAL PURCHASE OFFICER
Central Purchase Officer

[Signature]
HEAD OF THE CENTRE

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
INFORMATION SUPERHIGHWAY CENTRE
ROORKEE- 247 667, Uttaranchal (India)

23
8

PURCHASE ORDER*

(Order will be valid only when it is signed by Head & CPO both)

Order No.: ISC/P-132 /2006/ 1500

Dated: Dec. 20, 2006

M/S Samtech InfoNet Limited
14, DSIDC, Computer Complex, Scheme-I
Okhla Industrial Area, Phase 2
New Delhi - 110020

Dear Sirs,

With reference to your quotation No. Samtech/Wireless/IITR/01, dated Nov. 15, 2006, we hereby place an order for the following work and Services on the terms and conditions given below:

Sl. No.	Particular of work	Unit Price (in Rs.)	Period of work	Amount (Rs.)
1.	System Integration and Professional Services for implementation of Wireless Network for 8 student hotels Network Design based on RF survey Installation, configuration and commissioning of WiFi Access Points, Network Switches, Network Management to manage and monitor the Wi-Fi Network Testing, Setting up authentication mechanism for access, Project Documentation and reports, Training for Staff	5,00,000.00	Within 45 days	5,00,000.00
2.	After Deployment Support	15,000.00 per month	For 3 months*	45,000.00
Total				5,45,000.00

Amount in Words: Rs. Five Lakhs Forty Five Thousand Only

* Initially for three months and may be extended if necessary at the same rate.

Terms & Conditions:- as per existing purchase regulations.

1. FOR: IIT Roorkee
2. **Payment:** For Sl. No. 1, 100% after completion of work and For Sl. No. 2, at the end of month against the submission of invoice.
3. **Delivery Period:** Within 45 days
4. **Sales Tax:** Nil
5. **Any Other Tax:** Service Tax as applicable
6. **Warranty:** On site engineer for three months
7. Arbitration clause and other terms & conditions as per Annexure - A.

Central Purchase officer

Head of the Department

Copy to:

1. Professor In-charge (Finance) the expenditure chargeable to Grant No. MHR01-78-124-802.
2. Central Purchase Officer

Pre-audited

Central Purchase Officer

Head of the Department

D-Link D-Link (India) Limited

ANNEXURE - 1

22-Nov-06

Prepared by: D-Link India Ltd.

Revised Commercial Quote for IIT Roorke

Sr. No.	Part Code	Description	Qty	Unit Price	Final Price
1	DWL-3200 AP	Wireless Access Point	500	INR 6,300	INR 3,150,000
2	DES-1316	16 Port 10/100 L2 Manageable Switch (8 port POE)	72	INR 13,780	INR 992,160
3	DES-3828	24-port 10/100 Mbps plus 4 Gigabit ports Layer	8	INR 32,118	INR 256,944
4	DEM-310GT	1-port mini-GBIC LX Single-mode Fiber Transceiver (up to 10km, support 3.3V power)	8	INR 7,102	INR 56,816
5	DES-3526	24-port 10/100Mbps with 2 Combo 1000Base-T/Mini-GBIC ports L2 Managed Stackable Switch	8	INR 14,659	INR 117,272
6	DC6CAUTP4P3X	Solid Cable Cat 6, 4 pair, UTP - 305m	80	INR 4,236	INR 338,880
7	DFBOX06RXXX	LIU 06 PORT RACK MOUNT BLK	8	INR 1,915	INR 15,320
8	DFPCD2LCSC01	PATCH CORD LC-SC MM(50) DUPLEX LENGTH- 1m	48	INR 1,111	INR 53,347
9	DFCOSCXSPPR09	Connector SM SC type with 0.9mm boot	48	INR 140	INR 6,720
10	DFPANXXA06NPBR	1x6 unloaded front adapter module	8	INR 51	INR 408
11	DFADSCITYPXSZS	ADAPTOR SC SM -ZR-SLEEVE	48	INR 133	INR 6,384
Total					INR 4,994,251

Rs. Forty Nine Lacs Ninety Four Thousand Two Hundred Fifty One Only

Terms & Conditions:

- Order is to be placed on D-Link India Ltd, 5, Verna Electronic City, Goa - 403722 India
- Tax @ 0.5% against "Form D" is included in the price. In case IIT Roorkee does not provide "Form D", tax would be charged @ 10% i.e. IITR would have to pay additional tax of 9.5%.
- Warranty:** 1 year on the Active Components (Item Nos. 1-5)
- Delivery (from the date of receipt of formal Purchase Order):** 10% of the Quantity (phase 1): 3-4 weeks Remaining 90% of the quantity (Phase 2): 4-5 weeks. Delivery Schedule to be given by IIT Roorke.
- Payment:** 100% (towards the material supplied) within one week from the date of Delivery by D-Link and inspection by IIT F
- Prices quoted for item Nos. 6-11 are Excise Duty Exempted and IIT Roorkee would provide "Excise Duty Exemption Certificate" for the same. Otherwise Excise Tax @ 16% would be charged.

Filed, ISO

[Signature]
22/11/06

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT .2005

D-Link D-Link (India) Limited

ANNEXURE - 1

22-Nov-06

Prepared by: D-Link India Ltd.

Revised Commercial Quote for IIT Roorkee

Sr. No.	Part Code	Description	Qty	Unit Price	Final Price
1	DWL-3200 AP	Wireless Access Point	500	INR 6,300	INR 3,150,000
2	DES-1316	16 Port 10/100 L2 Manageable Switch (8 port POE)	72	INR 13,780	INR 992,160
3	DES-3828	24-port 10/100 Mbps plus 4 Gigabit ports Layer	8	INR 32,118	INR 256,944
4	DEM-310GT	1-port mini-GBIC LX Single-mode Fiber Transceiver (up to 10km, support 3.3V power)	8	INR 7,102	INR 56,816
5	DES-3526	24-port 10/100Mbps with 2 Combo 1000Base-T/Mini-GBIC ports L2 Managed Stackable Switch	8	INR 14,659	INR 117,272
6	DC6CAUTP4P3X	Solid Cable Cat 6, 4 pair, UTP - 305m	80	INR 4,236	INR 338,880
7	DFBOX06RXXX	LIU 06 PORT RACK MOUNT BLK	8	INR 1,915	INR 15,320
8	DFPCD2LCSC01	PATCH CORD LC-SC MM(50) DUPLEX LENGTH- 1m	48	INR 1,111	INR 53,347
9	DFCOSCXSPR09	Connector SM SC type with 0.9mm boot	48	INR 140	INR 6,720
10	DFPANXXA06NPBR	1x6 unloaded front adapter module	8	INR 51	INR 408
11	DFADSC TYPXZS	ADAPTOR SC SM -ZR-SLEEVE	48	INR 133	INR 6,384
Total					INR 4,994,251

Rs. Forty Nine Lacs Ninety Four Thousand Two Hundred Fifty One Only

Terms & Conditions:

1) Order is to be placed on D-Link India Ltd, 5, Verna Electronic City, Goa - 403722 India

2) Tax @ 0.5% against "Form D" is included in the price. In case IIT Roorkee does not provide "Form D", tax would be charged @ 10% i.e. IITR would have to pay additional tax of 9.5%.

3) Warranty: 1 year on the Active Components (Item Nos. 1-5)

4) Delivery (from the date of receipt of formal Purchase Order): 10% of the Quantity (phase 1): 3-4 weeks Remaining 90% of the quantity (Phase 2): 4-5 weeks. Delivery Schedule to be given by IIT Roorkee.

5) Payment: 100% (towards the material supplied) within one week from the date of Delivery by D-Link and Inspection by IIT Roorkee.

6) Prices quoted for item Nos. 6-11 are Excise Duty Exempted and IIT Roorkee would provide "Excise Duty Exemption Certificate" for the same. Otherwise Excise Tax @ 16% would be charged.

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT - 2005

Head, ISO

[Signature]
27/11/06

In the Reference of Annexure-I

The following activity has been done from that order

1. Enhancement of capability of Wi-Fi
2. Up gradation of Wi-Fi network
3. Repairing/replaced with faulty Equipments

Order will be valid only when it is signed by Head & CPO both

INFORMATION SUPERHIGHWAY CENTRE

Indian Institute Of Technology, Roorkee
ROORKEE - 247 667 (Uttarkhand)PURCHASE ORDER

ISC/P-155/IPART-A/2010/ 2772

Jan 14, 2011

M/s SPECTRUM INFOSOLUTIONS PVT LTD
Vibhuti Khand, Gomti Nagar
Lucknow 226 010

Dear Sir,

With reference to our enquiry ISC/P-155//2010/2750 Dated Nov 11, 2010 and your commercial offer No. nil dated Nov 16, 2010 submitted on Nov 30, 2010, your letter No. SIPL/10/14/12/06 dated Dec 14, 2010 and No. SIPL/12/28//10/06 dated Dec 28, 2010. We hereby place an order with you for the supply of the following item(s) on the terms and conditions given below and as per Annexure A.

S.No	Items	Rate Per Unit in INR	Qty	Amount in INR
1.	DWL-3200AP(802.11g)indoor wireless access point + PoE business class Make :D-Link Model: DWL-3200AP	7441.00	25	186025.00
2.	24 Port 10/100 Mbps PoE Smart Switch with 4 port 10/100/100 Mbps & 2 Combo SFP Make :D-Link Model: DES-1210-28P	24570.00	4	98280.00
3.	24 Port 10/100 Mbps plus 4 Gigabit port Layer Make : D-Link Model : DES-3828	33696.00	3	101088.00
4.	1-Port mini GBIC LX(up to 10 Km, support 3.3v power) Make: Dlink Model: DEM-310GT	8046.00	2	16092/00
Total Amount				Rs. 401485.00

Amount in Words: Rupees Four Lacs one Thousand four hundred eighty five Only

Term and conditions

1. For: ISC IIT Roorkee
2. Payment Terms: 100% against delivery and satisfactory checking
3. Sales Tax: Nil
4. Any Other Tax: VAT 5% extra
5. Delivery :within; 2 - 4 weeks
6. Warranty: Two years with provision for repair replacement of defective items in the warranty period.
7. Arbitration clause and other terms and conditions as per Annexure-A

CENTRAL PURCHASE OFFICER

Head of Department

Copy to:

1. Professor In-Charge (Finance) the expenditure is Chargeable to Grant No. MHR01-78-124-802
2. Central Purchase Officer
3. Office File

Pro-audited

Head of Department

सचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त

Central Purchase Officer 07/1/11

217

AMH 0000

GENERAL TERMS AND CONDITIONS

- 1. ARBITRATION CLAUSE:-** In the event of any difference or dispute arising out of this purchase, efforts shall be made by both the Parties to settle the same amicably. Failing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996 by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
- 2. SALES TAX:-** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill:
"CERTIFIED that the goods.....on which the sales tax has been charged, have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.
CERTIFIED further that we.....
.....(Our Branch or Agent)
(Address).....
are registered as dealers in the state of..... under registration No.....
for purpose of Sales Tax."
- 3.** The material will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
- 4. PAYMENT:** The payment shall be made on receipt of material and checking at site (unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
- 5.** Claims on account of Octroi, Railway/Motor freight, insurance charges, if admissible under the terms of the supply order and not included in the amount of the order, should be supported with vouchers, failing which the same will not be paid. If at the time of checking, it is found that the material/equipment is in damaged condition, the supplier shall be informed about the same immediately. The supplier should then take appropriate action to lodge his claim with the insurance company. The Department shall, in no way, be responsible for any loss to the supplier due to damage/breakage of material/equipment during the execution of this order.
- 6.** All correspondence regarding this purchase order should be addressed to the Prof & Head, Information Superhighway Centre, IIT, Roorkee.
- 7.** All disputes are subject to Roorkee jurisdiction only.

Pre-audited

Harayan
07/1/11

CENTRAL PURCHASE OFFICER

[Signature]

HEAD OF THE DEPARTMENT

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT - 2005

INFORMATION SUPERHIGHWAY CENTRE

Indian Institute Of Technology, Roorkee
ROORKEE – 247 667 (Uttarkhand)

REPEAT PURCHASE ORDER

ISC/P-155/IPART-A/2010/ 2772 S

Feb 17, 2011

M/s SPECTRUM INFOSOLUTIONS PVT LTD
Vibhiuti Khand, Gomti Nagar
Lucknow 226 010

Dear Sir,

With reference to purchase Order No. ISC/P-155/IPART-A/2010/2772 Dated Jan 14, 2011. We hereby place an repeat order with you for the supply of the following item(s) on the terms and conditions given below and as per Annexure A.

S.No	Items	Rate Per Unit in INR	Qty	Amount in INR
1.	DWL-3200AP(802.11g)indoor wireless access point + PoE business class Make :D-Link Model: DWL-3200AP	7441.00	25	186025.00
2.	24 Port 10/100 Mbps PoE Smart Switch with 4 port 10/100/100 Mbps & 2 Combo SFP Make :D-Link Model: DES-1210-28P	24570.00	4	98280.00
3.	24 Port 10/100 Mbps plus 4 Gigabit port Layer Make : D-Link Model : DES-3828	33696.00	3	101088.00
4.	1-Port mini GBIC LX(up to 10 Km, support 3.3v power) Make: Dlink Model: DEM-310GT	8046.00	2	16092/00
Total Amount			Rs.	401485.00

Amount in Words: Rupees Four Lacs one Thousand four hundred eighty five Only

Term and conditions

1. For: ISC IIT Roorkee
2. Payment Terms: 100% against delivery and satisfactory checking
3. Sales Tax: Nil
4. Any Other Tax: VAT 5% extra
5. Delivery :within; 2 – 4 weeks
6. Warranty: Two years with provision for repair replacement of defective items in the warranty period.
7. Arbitration clause and other terms and conditions as per Annexure-A

CENTRAL PURCHASE OFFICER

Head of Department

Copy to:

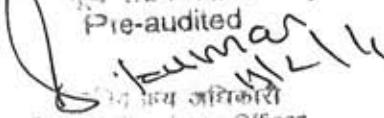
1. Professor In-Charge (Finance) the expenditure is Chargeable to Grant No. MHR01-78-124-802
2. Central Purchase Officer
3. Office File

Pre-audited
Purchase Officer

Head of Department

GENERAL TERMS AND CONDITIONS

1. **ARBITRATION CLAUSE:-** In the event of any difference or dispute arising out of this purchase, all efforts shall be made by both the Parties to settle the same amicably. Failing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996 by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
2. **SALES TAX:-** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill:
 "CERTIFIED that the goods.....on which the sales tax has been charges have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.
 CERTIFIED further that we.....
(Our Branch or Agent)
 (Address).....
 are registered as dealers in the state of..... under registration No.....
 for purpose of Sales Tax."
3. The material will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
4. **PAYMENT:** The payment shall be made on receipt of material and checking at site (unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
5. Claims on account of Octroi, Railway/Motor freight, insurance charges, if admissible under the terms of the supply order and not included in the amount of the order, should be supported with vouchers, failing which the same will not be paid. If at the time of checking, it is found that the material/equipment is in damaged condition, the supplier shall be informed about the same immediately. The supplier should then take appropriate action to lodge his claim with the insurance company. The Department shall, in no way, be responsible for any loss to the supplier due to damage/breakage of material/equipment during the execution of this order.
6. All correspondence regarding this purchase order should be addressed to the Prof & Head, Information Superhighway Centre, IIT, Roorkee.
 All disputes are subject to Roorkee jurisdiction only.

Pre-audited

 कर्मचारी
 Purchase Officer
CENTRAL PURCHASE OFFICER


HEAD OF THE DEPARTMENT

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
 SUPPLIED UNDER RTI ACT -2005

ANNEXURE

Order will be valid only when it is signed by Head & CPO both

INFORMATION SUPERHIGHWAY CENTRE

Indian Institute Of Technology, Roorkee
ROORKEE - 247 667 (Uttarkhand)

PURCHASE ORDER

Jan 13, 2011

May 155/IPART-B/2010/ 2771

M/s Prosys Computers

III, NC Ram Chandra Complex, 22 Civil Lines,
Roorkee 247 667

Dear Sir,

With reference to our enquiry ISC/P-155//2010/2750 Dated Nov 11, 2010 and your commercial offer No. PSC/IITR/5079/2010-11 dated Nov 29, 2010 submitted on Nov 30, 2010, We hereby place an order with you for the supply of the following item(s) on the terms and conditions given below and as per Annexure A.

S.No	Items	Rate Per Unit in INR	Qty	Amount in INR
1.	8 PoE 10/100/1000 Mbps, 2 Combo 10/100/1000 Base-TSFP Make : D-Link Model : DGS 1204-10P	20496.00	6	122976.00
		Total Amount	Rs.	122976.00

Amount in Words: Rupees one Lacs twenty two Thousand nine hundred seventy six Only

Term and conditions

1. For: ISC IIT Roorkee
2. Payment Terms: 100% against delivery and satisfactory checking
3. Sales Tax: Nil
4. Any Other Tax: VAT/Sale Tax 4.5 % extra
5. Delivery : within 4-6 weeks
6. Warranty: Two years with provision for repair replacement of defective items in the warranty period.
7. Arbitration clause and other terms and conditions as per Annexure-A

CENTRAL PURCHASE OFFICER

Head of Department

Copy to:

1. Professor In-Charge (Finance) the expenditure is Chargeable to Grant No. MHR01-78-124-802
2. Central Purchase Officer
3. Office File

Head of Department

Pre-audited

Central Purchase Officer

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT -2005

GENERAL TERMS AND CONDITIONS

1. **ARBITRATION CLAUSE:-** In the event of any difference or dispute arising out of this purchase, a efforts shall be made by both the Parties to settle the same amicably. Failing an amicable settlement the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996 by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
2. **SALES TAX:-** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill:
 "CERTIFIED that the goods.....on which the sales tax has been charges have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.
 CERTIFIED further that we.....
(Our Branch or Agent)
 (Address).....
 are registered as dealers in the state of..... under registration No..... for purpose of Sales Tax."
3. The material will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
4. **PAYMENT:** The payment shall be made on receipt of material and checking at site (unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
5. Claims on account of Octroi, Railway/Motor freight, insurance charges, if admissible under the terms of the supply order and not included in the amount of the order, should be supported with vouchers, failing which the same will not be paid. If at the time of checking, it is found that the material/equipment is in damaged condition, the supplier shall be informed about the same immediately. The supplier should then take appropriate action to lodge his claim with the insurance company. The Department shall, in no way, be responsible for any loss to the supplier due to damage/breakage of material/equipment during the execution of this order.
6. All correspondence regarding this purchase order should be addressed to the Prof & Head, Information Superhighway Centre, IIT, Roorkee.
7. All disputes are subject to Roorkee jurisdiction only.

CENTRAL PURCHASE OFFICER


 HEAD OF THE DEPARTMENT

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
 SUPPLIED UNDER RTI ACT - 2005

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
 SUPPLIED UNDER RTI ACT - 2005

(12) (8)

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
INFORMATION SUPERHIGHWAY CENTRE
ROORKEE- 247 667, Uttarakhand (India)**

(Order will be valid only when it is signed by Head & CPO both)

PURCHASE ORDER*

Order No.: ISC/P-154/2010/2133

Dated: April 13, 2010

M/S HCL Infosystems Ltd.,
57, Indira Nagar,
Near Asian School,
Dehradun-248006

Dear Sirs,

With reference our enquiry No. ISC/P-154/2010 dt. 18/02/2010 and your quotation No. HCL/ISS/IIT/08/2009-2010 dated 08/03/2010 and your Email dated 16/03/2010, we hereby place an order for the supply of the following item(s) on the terms and conditions given below:

S. No.	Product Code & Description	Unit Rate (Rs.)	Qty	Total (Rs.)
1.	Switch : 24 port 10/100 Mbps plus 4 Gigabit port Layer	34,500.00	05	1,72,500.00
Total				1,72,500.00
VAT/CST @ 4%				Inclusive
Grand Total				1,72,500.00

Amount in Words: Rs. One Lac Seventy Two Thousand Five Hundred Only.

Terms & Conditions:- as per existing purchase regulations.

1. FOR: IIT Roorkee Campus
2. Payment: 100% payment after supply of material.
3. Delivery: Immediately (2-3 weeks)
4. Warranty: 12 months
5. Tax: All inclusive
6. Arbitration clause and other terms & conditions as per Annexure 'A' given overleaf

Copy to:

1. Professor In-charge (Finance) the expenditure chargeable to Grant No. MHR01-78-124-802
2. Central Purchase Officer

Head of the Centre
विभागाध्यक्ष/Head
सू०म०के०/I.S.C.

Head of the Centre ✓
विभागाध्यक्ष/Head
सू०म०के०/I.S.C.

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT . 2005

GENERAL TERMS AND CONDITIONS

1. **ARBITRATION CLAUSE:** In the event of any difference of dispute arising out of this purchase, all efforts shall be made by both the Parties to settle the same amicably. Filing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996, by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
2. **SALES TAX:** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill.
"CERTIFIED that the goods.....on which the sales tax has been charges have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.

CERTIFIED further that we.....

.....(Our Branch or Agent).....

(Address).....

are registered as dealers in the state of.....under registration No..... for purpose of Sales Tax".

3. The materials will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
4. **PAYMENT:** The payment shall be made on receipt of materials and checking at site (Unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
5. Claims on account of Octroi, Railway/Motor freight, insurance charges, if admissible under the terms of the supply order and not included in the amount of the order, should be supported with vouchers, failing which the same will not be paid. If at the time of checking, it is found that the materials/equipment is in damaged condition, the supplier shall be informed about the same immediately. The supplier should then take appropriate action to lodge his claim with the insurance company. The Department shall, in no way, be responsible for any loss to the supplier due to damage/ breakage of material/equipment during the execution of this order.
6. All correspondence regarding this purchase order should be addressed to the Head, ISC, IIT, Roorkee
7. All disputes are subject to Roorkee jurisdiction only.

CENTRAL PURCHASE OFFICER

HEAD OF THE CENTRE

सूचना का अधिकार अधिनियम, 2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT -2005

TERMS AND CONDITIONS INDIAN

(10)

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
INFORMATION SUPERHIGHWAY CENTRE
ROORKEE- 247 667, Uttaranchal (India)**

PURCHASE ORDER*

(Order will be valid only when it is signed by Head & CPO both)

Order No.: ISC/P-154/2009/2076

Dated: 08 Jan, 2010

M/S Prosys Computers,
18, N.C. Ram Chandra Complex,
22, Civil Lines,
Roorkee-247667

Dear Sirs,

With reference our enquiry No. ISC/2025/2009 dt. 14/09/2009 and your quotation No. PSC/2009-10/IITR/540 dated Sept. 11, 2009 & your letter dated Jan. 03, 2010, we hereby place an order for the supply of the following item(s) on the terms and conditions given below:

S. No.	Product Code & Description	Unite Rate (Rs.)	Qty	Total (Rs.)
2	DES-1316 : 16 port web smart switch with 8 PoE port	19,980.00	10 Nos	1,99,800.00
Total				1,99,800.00
VAT /CST @ 4%				7,992.00
Grand Total				2,07,792.00

Amount in Words: Rs. Two Lakh Seven Thousand Seven Hundred Ninety Two Only

Terms & Conditions:- as per existing purchase regulations.

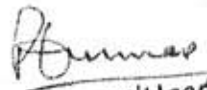
1. FOR: ISC, IITR
2. Payment: 100% against delivery
3. Delivery: 6 to 8 weeks after confirm order
4. Warranty: One Year
5. Tax: VAT 4% extra (As Included in Grand Total above)
6. Arbitration clause and other terms & conditions as per Annexure 'A' given overleaf

Head of the Centre

Copy to:

1. Professor In-charge (Finance) the expenditure chargeable to Grant No. MHR01-78-124-802
2. Central Purchase Officer

15/1/10
Ajay


Head of the Centre
सुमंके/1.S.C.

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT -2005

GENERAL TERMS AND CONDITIONS

1. **ARBITRATION CLAUSE:** In the event of any difference of dispute arising out of this purchase, all efforts shall be made by both the Parties to settle the same amicably. Filing an amicable settlement, the dispute shall be finally settled through arbitration conducted under the Arbitration and Conciliation Act, 1996, by three arbitrators appointed in accordance with the said Act. The arbitrators shall give reasoned and speaking award.
2. **SALES TAX:** Will be paid extra if applicable. In case you claim Sales tax, the following certificates may be recorded on the bill.
"CERTIFIED that the goods.....on which the sales tax has been charges have not been exempted the Central Sales Tax Act or the State Tax Act or the rules made there under. The charges on account of Sales Tax on these goods are correct under provision of the relevant act or the rules made there under.

CERTIFIED further that we.....
.....
.....(Our Branch or Agent).....
(Address).....
are registered as dealers in the state of.....under registration No..... for purpose of Sales Tax".
3. The materials will be accepted only after inspection at this Department. If not found suitable or according to the specifications, the same will be returned at your cost and risk.
4. **PAYMENT:** The payment shall be made on receipt of materials and checking at site (Unless otherwise specified in the order overleaf) with regard to the quality and quantity as per our order. In case of advance payment, the bills for the advance amount and for the balance amount must be sent separately. The bill should be in duplicate, duly stamped and pre-receipted otherwise the payment will not be made.
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6. All correspondence regarding this purchase order should be addressed to the Head, ISC, IIT, Roorkee
7. All disputes are subject to Roorkee jurisdiction only.

Pr...
8/11/10
CENTRAL PURCHASE OFFICER

R...
HEAD OF THE CENTRE
स.प.के.।।.स.के.

TERMS AND CONDITIONS INDIAN

There were no such complain for the failure, only the complain regarding following points

1. In some room internet connectivity is not good
2. Some wing Internet rack power off
3. Sometimes the Cybercafé system shut down due to power problem

सूचना का अधिकार अधिनियम-2005 के अन्तर्गत प्रदत्त
SUPPLIED UNDER RTI ACT - 2005