



Attachment A: Mandatory Specifications

Product Specification for Standard Desktop

Lenovo Response:

Note that additional Lenovo technical specifications are included in Appendix B

Components	Minimum Specifications	Bid Specification		
Your Model Name/Number	Please provide	ThinkCentre M52 Tower / 8113-CTO		
When was this model introduced?	State date	June 2005		
What is the expected market withdrawal date?	State date	October 2006		
Processor / Speed	3.0 GHz Pentium IV hyperthreaded	Pentium 4 630 (3.0GHz) Hyperthreaded		
Bus Architecture	ISA/PCI/AGP	PCI 2.3 bus		
Bus Speed	Provide MHz	800MHz		
Expansion Slots	3 - PCI,	2 - full length, full height PCI Express slots		
•	1 – AGP, 1- 5 1/4"	2 – full length, full height 32 bit PCI slots		
	expansion bay	1 – open 5.25" bay		
Secondary Cache	Commission of the same of the	2mb L2 cache		
Hard Drive	60 GB minimum	80GB 7200 rpm Hard Drive		
RAM: Standard	512 MB	512mb RAM		
CD-ROM	48X minimum	48x CD ROM Drive		
NIC Card (Integrated	10/100/1000	10/100/1000 Ethernet on systemboard		
acceptable)	Ethernet			
Keyboard	USB 104 key,	104 Key Preferred Pro IBM Keyboard (PS/2), Windows		
	Windows compliant	compliant		
Mouse	2 button scrolling - Optical USB 2.0 (Microsoft or Logitech	2 button USB Optical Wheel Mouse		
	compatible)	Control Contro		
Serial Port (16550	1 each Serial	1 – 9 Pin Serial Port		
UART)/USB2.0	4 each USB	8 – USB 2.0 Ports		
Parallel Port	Bi-directional	1 – Bi-directional Parallel Port		
Available Slots	3 minimum	4 Available Slots (2 – PCI Express; 2 – 32 bit PCI)		
Dimensions	Provide dimensions	7.0" W X 17.7"D X 17.0"H		
		178mm W X 450mm D X 432mm H		
		25.0 to 27.5 lb (11.3 to 12.5 kg)		
Video Capability:		Intel Graphics Media Accelerator 950		
<u>ana mangagan gang</u> an gangan me		Uses up to 128mb of system memory		
Required Resolution	1024 x 768	1024 x 768 minimum		
Required Colors @ 1024 x 768	minimum 65 thousand minimum	65k colors minimum		
Colors	16 million colors capable	16M colors capable		





Components	Minimum Specifications	Bid Specification		
Video Memory	32 MB minimum	Intel Graphics Media Accelerator 950		
<u> </u>		Uses up to 128mb of system memory		
Expandable Memory	State Maximum	4GB RAM maximum		
Optional Upgraded AGP Slot Video Card	4x AGP with 128MB	128 Mb ATI Radeon X300SE (option)		
Optional Upgraded AGP Slot Video Card	8x AGP with 256MB	Available via 3 rd Party		
Graphics interface	PCI/AGP	PCI Express interface		
DVI Interface included?		Available via optional Video Card		
Multimedia:				
Embedded sound	Sound Blaster compatible	High Definition (HD) audio; Sound Blaster compatible.		
Desktop Management Tools:				
Desktop Management Interface	DMI 2.0 Compliant			
Desktop Management/	List product	Please see Appendix A for list of included ThinkVantage		
Administrative Software	descriptions	Technologies		
Other Management Features	List product	Please see Appendix A for list of included ThinkVantage		
	descriptions	Technologies		
Operating systems:	Company of the Compan			
OS Certified: Windows XP Professional	Required	Windows XP Professional with Service Pack 2		
Equipment backward		Lenovo tests units for Windows 2000 and provide		
compatible with Win NT and 2000		necessary drivers. Proposed Lenovo hardware is not backwards compatible with Win NT as Intel no longer creates drivers for Win NT.		
Warranty – three year parts		3 year parts and labor warranty included in unit price.		
and labor with State technical		First level labor by State technical staff via Lenovo Self		
staff providing first level labor		Maintainer Program.		
Warranty - fourth year parts		4 year parts and labor warranty included in unit price		
and labor with State technical staff providing first level labor		First level labor by State technical staff via Lenovo Self Maintainer Program.		
Shipping Costs	Must be included in base cost/per unit	Ground Shipping included in unit price		
Options:				
Additional Memory SDRAM		256mb upgrade – p/n 73P4970		
		512mb upgrade – p/n 73P4971		
		1GB upgrade – p/n 73P4972		
		2GB upgrade – p/n 73P4973		
External 3.5 USB floppy drive		External USB Floppy Drive – p/n 05k9276		
Internal 3.5 floppy disk CDRW-DVD		Internal 3.5 Floppy Drive – p/n 29R8835 Internal 48x/32x/48x/16x CDRW/DVD Combo Drive –		
		p/n 73P3300		
Form Factor	Indicate availability of small-form factor, convertible, or mini-tower	Tower form factor. proposed Also available: Small Desktop and Desktop Form Factors		





Attachment B: Mandatory Specifications

Product Specification for Power Desktops

Components	Minimum	Bid Specification		
	Specifications	ThinkCentre M52 Tower / 8113-CTO		
Your Model Name/Number	Please provide			
When was this model introduced?	State date	June 2005		
What is the expected market withdrawal date?	State date	October 2006		
Processor / Speed (dual	3.8 GHz Pentium	Pentium 4 650 (3.4GHz) Hyperthreaded		
Processor capability)	IV hyperthreaded	Faster processors to be supported in 1Q06.		
Bus Architecture	ISA/PCI/AGP	PCI 2.3 bus		
Bus Speed	Provide MHz	800MHz		
Expansion Slots	3 - PCI,	2 - full length, full height PCI Express slots		
	1 – AGP, 1- 5 ¼"	2 – full length, full height 32 bit PCI slots		
	expansion bay	1 – open 5.25" bay		
Secondary Cache		2mb L2 cache		
Hard Drive	160GB minimum	160GB 7200 rpm Hard Drive		
RAM: Standard	1 GB	1GB RAM		
DVD-ROM/DVD-RW Drive		MultiBurner Plus (DVD RW)		
NIC Card (Integrated	10/100/1000	10/100/1000 Ethernet on systemboard		
acceptable)	Ethernet			
Keyboard	USB 104 key,	104 Key Preferred Pro IBM Keyboard (PS/2), Windows		
	Windows compliant			
Mouse	2 button scrolling - Optical USB 2.0 (Microsoft or Logitech compatible)	2 button USB Optical Wheel Mouse		
Serial Port (16550	1 each Serial	1 – 9 Pin Serial Port		
UART)/USB2.0	4 each USB	8 – USB 2.0 Ports		
Parallel Port	Bi-directional	1 – Bi-directional Parallel Port		
Slots	3 minimum	4 Available Slots (2 – PCI Express; 2 – 32 bit PCI)		
Dimensions	Provide dimensions	7.0" W X 17.7"D X 17.0"H		
		178mm W X 450mm D X 432mm H		
		25.0 to 27.5 lb (11.3 to 12.5 kg)		
Video Capability:		128mb DDR ATI Radeon X300		
Required Resolution	1280 x 1024 1024 x 1024 minimum			
_	minimum			
Required Colors @ 1280 x	65 thousand	65k colors minimum		
1024	minimum			
Colors	16 million colors capable	16M colors capable		
Video Memory	128 MB minimum	128mb DDR ATI Radeon X300		
Expandable Memory	State Maximum 4GB RAM maximum			
Graphics interface	PCI/AGP/PCIe	PCI Express		
DVI Interface included?		Available via optional Video Card		





Components	Minimum	Bid Specification			
	Specifications				
Multimedia:		MultiBurner Plus (DVD RW)			
Embedded sound	Sound Blaster compatible	High Definition (HD) audio; Sound Blaster compatible			
Desktop Management Tools:					
Desktop Management Interface	DMI 2.0 Compliant	DMI 2.0 Compliant			
Desktop Management/ Administrative Software	List product descriptions	Please see Appendix A for list of included ThinkVantage Technologies			
Other Management Features	List product descriptions	Please see Appendix A for list of included ThinkVantage Technologies			
Operating systems:					
OS Certified: Windows XP Professional	Required	Windows XP Professional with Service Pack 2			
Equipment backward compatible with Win NT and		Lenovo tests units for Windows 2000 and provide necessary drivers.			
2000		Proposed Lenovo hardware is not backwards compatible with Win NT as Intel no longer creates drivers for Win NT.			
Warranty - three year parts		3 year parts and labor warranty included in unit price.			
and labor with State technical		First level labor by State technical staff via Lenovo Self			
staff providing first level labor		Maintainer Program.			
Warranty – fourth year parts		4 year parts and labor warranty included in unit price.			
and labor with State technical staff providing first level labor		First level labor by State technical staff via Lenovo Self Maintainer Program.			
Shipping Costs	Must be included in	Ground Shipping included in unit price			
Simpping Costs	base cost/per unit	Ground Shipping metaded in unit price			
Options:					
Additional Memory SDRAM		256mb upgrade – p/n 73P4970			
		512mb upgrade – p/n 73P4971			
		1GB upgrade – p/n 73P4972			
	A ACD W	2GB upgrade – p/n 73P4973			
Optional Upgraded AGP Slot Video Card	4x AGP with 128MB	Included in Unit Price			
Optional Upgraded AGP Slot	8x AGP with	Available via 3 rd Party			
Video Card	256MB	E . LUODE D			
External 3.5 USB floppy drive		External USB Floppy Drive – p/n 05k9276			
Internal 3.5 floppy drive	or the communication of the second of the se	Internal 3.5 Floppy Drive – p/n 29R8835			
2 nd . Processor option Form Factor	Indicate and lakilit	Not Available Tower form factor proposed			
POLITI ESCUP	Indicate availability of small-form	Tower form factor proposed Also available: Small Desktop and Desktop Form			
	factor, convertible, or mini-tower	Factors			





Attachment C: Mandatory Specifications

Product Specification for Standard Laptops

Specifications ThinkPad R52 / 1848-CTO	Components	Minimum	Bid Specification		
Your Model Name/Number State date March 2005	Components		эн эреспісацоп		
When was this model introduced? What is the expected market withdrawal date? Processor / Speed Pentium M 1.7 GHz minimum Mobile Chip Set Display 14 " diagonal viewable TFT active matrix recensive matrix RAM: Standard 1 GB 1GB RAM Removable Hard Drive 60 GB minimum 60GB Hard Drive Ethernet Adapter 10/100/1000 Integrated PVD/CD-RW 24x/24x/24x/8x CDRW / DVD Combo Drive Expansion Slots 2 PCMCIA Type II 2 PCMCI	Your Model Name/Number		ThinkPad R52 / 1848-CTO		
Introduced? What is the expected market withdrawal date? Processor / Speed Pentium M 1.7 GHz minimum Mobile Chip Set Intel Pentium-M 740 (1.73GHz) Mobile Intel 915PM Express Chipset Chip Set I4 " diagonal viewable TFT active matrix I4 " diagonal viewable TFT active matrix I4 " diagonal viewable TFT active matrix I6B RAM I6		State date			
Processor / Speed Pentium M 1.7 GHz minimum Mobile Chip Set	introduced?				
Processor / Speed	What is the expected market	State date	September 2006		
minimum Mobile Chip Set 14 " diagonal viewable TFT active matrix screen viewable TFT active matrix screen viewable TFT active matrix screen viewable Hard Drive RAM: Standard 1 GB 1GB RAM Removable Hard Drive 60 GB minimum 60GB Hard Drive Ethernet Adapter 10/100/1000 Integrated DVD/CD-RW 24x/24x/24x/8x CDRW / DVD Combo Drive Expansion Slots 2 PCMCIA Type II 2					
Chip Set 14 " diagonal viewable TFT active matrix screen viewable TFT active matrix	Processor / Speed		· · · · · · · · · · · · · · · · · · ·		
14 " diagonal viewable TFT active matrix screen viewable TFT active matrix			Mobile Intel 915PM Express Chipset		
RAM: Standard 1 GB 1 GB RAM Removable Hard Drive 60 GB minimum 60 GB Hard Drive Ethernet Adapter 10/100/1000 Integrated DVD/CD-RW Expansion Slots 2 PCMCIA Type II 2 PCMCIA T					
RAM; Standard 1 GB 1GB RAM Removable Hard Drive 60 GB minimum 60GB Hard Drive Ethernet Adapter 10/100/1000 Integrated DVD/CD-RW 24x/24x/24x/8x CDRW / DVD Combo Drive Expansion Slots 2 PCMCIA Type II 2 PCMCIA Type II 2 Secondary Cache 512K minimum 2mb L2 Cache Keyboard Size Provide dimensions 87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys) Laptop Size Provide dimensions 12 4" x 10.2" x 1 35-1 46"; 314mm x 260mm x 34-37mm Weight with optical drive and battery: 14.1" models: 6.1 lb (2.8kg) Pointing Device Specify Integrated Pointing Device Secondary Cache 12 4" x 10.2" x 1 35-1 46"; 314mm x 260mm x 34-37mm Weight with optical drive and battery: 14.1" models: 6.1 lb (2.8kg) Pointing Device Specify Integrated Pointing Device 41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Display		14.1" diagonal viewable TFT active matrix screen		
RAM: Standard Removable Hard Drive Ethernet Adapter 10/100/1000 Integrated DVD/CD-RW Expansion Slots Secondary Cache Keyboard Size Provide dimensions Laptop Size Provide dimensions Specify Integrated Pointing Device Pointing Device External Mouse Port Serial Port (Minimum 16550 UART)/2 USB 2.0 Wireless connectivity 802.11 G Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Colors @ 1024 x 768 Colors 10/100/1000 Ethernet on systemboard 10/100/1000 Iteres is preferable in 10/100 Ethernet on systemboard 10/100/1000 Iteres is preferable in 10/100/1000 Ethernet on system / touch palmets / pitch: 19mm; 10/100/1000 Iteres is preferable in 10/100 Iteres is preferable in 10/100 Iteres is preferable					
Removable Hard Drive Ethernet Adapter 10/100/1000 Integrated DVD/CD-RW Expansion Slots Secondary Cache Keyboard Size Provide dimensions Laptop Size Provide dimensions Specify Integrated Pointing Device External Mouse Port Serial Port (Minimum 16550 UART) 2 USB 2.0 Wireless connectivity 802.11 GParallel Port Infrared Port Expandable to Video Capability: Required Colors © 1024 x 768 Colors 60 GB Hard Drive 10/100/1000 Ethernet on systemboard 1	DAM. Candani	~~~	1CD DAM		
Ethernet Adapter 10/100/1000 Integrated DVD/CD-RW Expansion Slots Secondary Cache Keyboard Size Provide dimensions Laptop Size Provide dimensions Laptop Size Provide dimensions Specify Integrated Pointing Device External Mouse Port Serial Port (Minimum 16550 UART) / 2 USB 2.0 Wireless connectivity 802.11 GPARIBLE Provide Required Parallel Port Infrared Port Expandable to Video Capability: Required Colors @ 1024 x 768 Colors 10 12 4 2 4 2 4 2 4 2 4 2 4 8 x CDRW / DVD Combo Drive 24 2 4 2 4 2 4 2 4 2 8 2 2 PCMCIA Type II 2		·			
10/100/1000 Integrated DVD/CD-RW 24x/24x/24x/8x CDRW / DVD Combo Drive		ov GB minimum			
Expansion Slots 2 PCMCIA Type II 2 PCMCIA Type II Secondary Cache 512K minimum 2mb L2 Cache 87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys) 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm Weight with optical drive and battery: 14.1" models: 6.1 lb (2.8kg) Pointing Device Specify Integrated Pointing Device TrackPoint: pointing device, "Press-to-Select," Internet Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones Attach mouse via USB port 2 USB 2.0 ports 2 USB 2.0 ports 11b/g wireless connectivity 802.11 Detail Specification 1 Bi-directional Parallel Port Bi-directional 1 Bi-directional Parallel Port Required 1 Infrared Port Required 1 Infrared Port Required 1 Infrared Port 1 Infrared Port Required 1 Infrared Port 2 USB 2.0 ports 1 Infrared Port 2 USB 2.0 ports 2 USB 2.0 ports 1 Infrared Port 2 USB 2.0 ports 2 USB 2.0 ports 2 USB 2.0 ports 2 USB 2.0 ports			10/100/1000 Ethernet on systemboard		
Secondary Cache Frovide dimensions S7-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys)	DVD/CD-RW	The second section is constrained assessment and disagramment and the second section and the second section is	24x/24x/24x/8x CDRW / DVD Combo Drive		
Provide dimensions S7-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys)			2 PCMCIA Type II		
Laptop Size Provide dimensions Laptop Size Provide dimensions 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm Weight with optical drive and battery: 14.1" models: 6.1 lb (2.8kg) Pointing Device Specify Integrated Specify In		The state of the s			
Laptop Size Provide dimensions Browled dimensions Weight with optical drive and battery: 14.1" models: 6.1 lb (2.8kg) TrackPoint: pointing device, "Press-to-Select," Internet Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones Attach mouse via USB port Attach serial devices via USB port 2 USB 2.0 ports Browled dimensions Browled Browled Attach mouse via USB port 2 USB 2.0 ports Browled Br	Keyboard Size	Provide dimensions			
Pointing Device Specify Integrated Pointing Device Specify Integrated Pointing Device Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones External Mouse Port Required Required Attach mouse via USB port Attach serial devices via USB port 2 USB 2.0 ports Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors Weight with optical drive and battery: 14.1" models: 6.1 lb (2.8kg) TrackPoint: pointing device, "Press-to-Select," Internet Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones Attach mouse via USB port 2 USB 2.0 ports 1 lb/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 1 Bi-directional Parallel Port Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors 16 million colors 16 M colors via external display	AND AND RESIDENCE OF CONTRACTOR OF THE PROPERTY OF THE PROPERT				
Pointing Device Pointing Device Specify Integrated Pointing Device Pointing Device Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones External Mouse Port Required Attach mouse via USB port Attach serial devices via USB port 2 USB 2.0 ports Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors 16 million colors IrackPoint: pointing device, "Press-to-Select," Internet Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones Attach mouse via USB port 2 USB 2.0 ports Ilb/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 1 Bi-directional Parallel Port Infrared Port Expandable to Video Capability: Required Colors @ 1024 x 768 65k colors 65k colors	Laptop Size	Provide dimensions			
Pointing Device External Mouse Port Serial Port (Minimum 16550 UART)/ 2 USB 2.0 Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Colors @ 1024 x 768 Colors Pointing Device Scroll Bar13, magnifying glass / UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones Attach mouse via USB port Attach serial devices via USB port 2 USB 2.0 ports Hib/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 1 Bi-directional Parallel Port 1 Infrared Port Expandable to Video Capability: Required Colors @ 1024 x 768 Colors 16 million colors 16 M colors via external display					
UltraNav: multi-pointing system / touch pad below keyboard / Tap Zones External Mouse Port Required Attach mouse via USB port Serial Port (Minimum 16550 UART)/ 2 USB 2.0 Wireless connectivity 802.11 Detail Specification G Parallel Port Bi-directional 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip Parallel Port Required 1 Bi-directional Parallel Port Infrared Port Expandable to Video Capability: Required Resolution 1024x768 1024 x 768 (display) Required Colors @ 1024 x 65 Thousand colors 768 Colors 16 million colors 16M colors via external display	Pointing Device				
External Mouse Port Required Attach mouse via USB port		Pointing Device			
External Mouse Port Serial Port (Minimum 16550 UART)/ 2 USB 2.0 Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors Required Attach mouse via USB port Attach serial devices via USB port 2 USB 2.0 ports 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 1 Bi-directional Parallel Port 1 Infrared Port 1 Infrared Port 1 Infrared Port 5 Thousand colors 65 Colors 16 million colors 16M colors via external display					
Serial Port (Minimum 16550 UART)/ 2 USB 2.0 Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors Attach serial devices via USB port 2 USB 2.0 ports 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 10b/g wireless, Mini PCI, Intel PRO/Wirel					
UART)/ 2 USB 2.0 Wireless connectivity 802.11 G Parallel Port Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors 2 USB 2.0 ports 11b/g wireless, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip 1 Bi-directional Parallel Port 1 Infrared Port 1 Infrared Port 1 Infrared Port 1 1 Infrared Port 5 Thousand colors 65 K colors 16M colors via external display	AND ADDRESS OF THE PROPERTY OF	Required	The Professional Communication of the Communication		
Wireless connectivity 802.11 Detail Specification G Intel 82532 chip Parallel Port Bi-directional 1 Bi-directional Parallel Port Infrared Port Required 1 Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 768 Colors 16 million colors 16M colors via external display					
G Intel 82532 chip Parallel Port Bi-directional 1 Bi-directional Parallel Port Infrared Port Required 1 Infrared Port Expandable to Video Capability: Required Resolution 1024x768 1024 x 768 (display) Required Colors @ 1024 x 65 Thousand colors 65k colors 768 Colors 16 million colors 16M colors via external display	The state of the s	Detail Creeification			
Parallel Port Infrared Port Required 1 Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 65 Thousand colors 768 Colors 1 Bi-directional Parallel Port 1 Infrared Port 1 Inf		Detail Specification			
Infrared Port Expandable to Video Capability: Required Resolution (display) Required Colors @ 1024 x 65 Thousand colors 768 Colors Required Resolution 65k colors 16 million colors 16M colors via external display	The state of the s	Ri-directional			
Expandable to Video Capability: Required Resolution 1024x768 1024 x 768 (display) Required Colors @ 1024 x 65 Thousand colors 65k colors 768 Colors 16 million colors 16M colors via external display	The second secon		A first transfer and transfer transfer to the contract of the		
Video Capability: Required Resolution 1024x768 1024 x 768 (display) Required Colors @ 1024 x 65 Thousand colors 65k colors 768 Colors 16 million colors 16M colors via external display		Traderion	A PARAMETER VICE A VAV		
Required Resolution (display) Required Colors @ 1024 x 65 Thousand colors 65k colors 768 Colors 16 million colors 16M colors via external display					
(display) Required Colors @ 1024 x 65 Thousand colors 65k colors 768 Colors 16 million colors 16M colors via external display	The state of the s	1024x768	1024 x 768		
Required Colors @ 1024 x 65 Thousand colors 65k colors 768 Colors 16 million colors 16M colors via external display	-		·-		
Colors 16 million colors 16M colors via external display	Required Colors @ 1024 x	65 Thousand colors	65k colors		
capable via external display	The second secon	capable via external	16M colors via external display		





Components	Minimum Specifications	Bid Specification		
Video Memory	32 MB minimum	ATI® MOBILITY™ RADEON® X300 / PCI Express x16 / 32MB GDDR1 memory		
Expandable Video Memory	State maximum	64mb maximum		
DVI Interface included?		S-video out port		
Multimedia Options	Detail options	Multi-Burner Plus Ultrabay Enhanced Drive (p/n 73P3312)		
Audio Capability:				
Audio	Sound Blaster compatible	Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec; Sound Blaster compatible		
Integrated Microphone & Speakers	Required	stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone		
External Microphone & Speaker Ports	Required	microphone input jack (3.5 mm; pink) / speaker port (3.5 mm; green)		
Modem - Integrated	Hayes compatible 56.6 KB fax/modem	Hayes compatible 56K6 V.90 (V.92-designed29) modem in CDC / Conexant® chipset		
Bus Architecture	32 bit PCI	32 bit PCI		
Bus Speed	400 MHz FSB	533MHz FSB		
Graphics interface	AGP adapter	PCI Express Graphics Interface (faster than AGP)		
Battery Life	2-5 hours	Up to 3.6 hours		
Maximum Carrying Weight including battery & AC adapter	6 pounds	6.1 pounds with battery		
Desktop Management Tools:	e i (glevodinetre i i gel i per itmet diesenti iberi - reservos / ee i i reveni i i per i ii que pep i repe i			
Desktop Management Interface	DMI 2.0 Compliant	DMI 2.0 Compliant		
Desktop Management/	List product	Please see Appendix A for list of included ThinkVantage		
Administrative Software	descriptions	Technologies		
Other Management Features	List product descriptions	Please see Appendix A for list of included ThinkVantage Technologies		
OS Certified: Windows XP	Required			
Standard OS	Windows XP Professional	Windows XP Professional with Service Pack 2		
Warranty – Three year parts and labor with State		3 year parts and labor warranty included in unit price. On-site warranty.		
Technical Staff providing first level labor. <u>Detail if warranty is carry-in, depot, or cross-ship.</u>		First level labor by State technical staff via Lenovo Self Maintainer Program.		
Warranty – fourth year parts and labor with State Technical Staff providing first level labor. <u>Detail if warranty is carry-in, depot, or cross-ship.</u>		4 year parts and labor warranty included in unit price On-site warranty First level labor by State technical staff via Lenovo Self Maintainer Program.		
Shipping Costs	Must be included in base cost/per unit	Ground Shipping included in unit price		





Components	Minimum Specifications	Bid Specification
Options:		
15" display		ThinkVision L151 15" Flat Panel (p/n 9205AB6)
17" display		ThinkVision L171 17" Flat Panel (p/n 9417AB1)
Higher resolution for 15" and 17" displays, at 1280 x 1024		Yes
3.5" swappable floppy drive		External USB Floppy Drive – p/n 05k9276
Swappable DVD+/RW		Multi-Burner Plus Ultrabay Enhanced Drive – p/n 73P3312
Additional Memory		256mb upgrade – p/n 73P3840
SDRAM		512mb upgrade – p/n 73P3842
		1GB upgrade – p/n 73P3844
Larger Hard Drives	List options	40GB / 5400 rpm – p/n 08K9816
J	•	60GB / 5400 rpm – p/n 73P3357
		80GB / 5400 rpm – p/n 09N4273
		Portable 40GB USB Hard Drive – p/n 22P7196
		Portable 80GB USB Hard Drive – p/n 40Y8726
External Keyboard	List options	IBM Enhanced Performance Keyboard – p/n 73P2620
Ergonomic Keyboard	104 key Windows compliant minimum	Available via 3 rd party
External Mouse	2 button scrolling - Optical USB 2.0 (Microsoft or Logitech compatible)	2 button USB Optical Mouse – p/n 06P4069
Carrying Case Standard	List options	Targus Nylon Carrying Case – 10k0207
	to the commence of the commenc	Targus Leather Carrying Case – 10k0209
Extra battery		ThinkPad 6 cell battery - p/n 92p1101
and the second s		ThinkPad 9 cell battery – p/n 92P1102
Extra power pack/ AC adapter		72W AC Adapter – p/n 02k6699





Attachment D: Mandatory Specifications

Product Specification for Tablets

Components	Minimum	Bid Specification			
Components	Specifications	Bid Specification			
Your Model Name/Number	Specifications	ThinkPad X41 Tablet / 1867-CTO			
When was this model	State date	June 2005			
introduced?	State date	June 2003			
What is the expected market	State date	August 2006			
withdrawal date?					
Form Factor: Convertible		Convertible Tablet			
Processor / Speed	Pentium M	Intel Pentium-M 758 (1.5GHz)			
	minimum Mobile	Mobile Intel 915GM Express Chipset			
	Chip Set				
Display	14 " diagonal	12.1" (307mm) Super Wide Angle FFS XGA (1024x768)			
	viewable TFT -	TFT color / anti-reflective and anti-glare protective			
	active matrix	coatings / 180 nits / write on screen with standard			
		digitizer pen / pen holder in front base /			
		rotate and swivel hinge in middle bottom of display for			
		tablet mode (portrait or landscape) or picture frame mode			
		(keyboard faces away from user) / 8 buttons on display			
		bottom (power, reboot, rotation, utility, Esc, enter, page			
	1.0.5=	up/down)			
Removable Hard Drive	40 GB minimum	40GB Hard Drive			
RAM: Standard	512MB minimum	512mb RAM			
CD-RW (can be swappable)	24x minimum	24x/24x/24x/8x CDRW / DVD Combo Drive (p/n			
		73P3288) via X4 Dock (p/n 250610U)			
		NOTE: Both options included in unit price			
Expansion Slots	2 PCMCIA Type II	1 PCMCIA Type II slot			
Secondary Cache	512K minimum	2mb L2 Cache			
Keyboard Size	Provide dimensions	Standard-size 26 keys / 97% size of T Series / 87-key /			
		18.5mm pitch; 2.5mm stoke / Access IBM button / palm			
Trullia Ci	7) 11 11 1	rest			
Tablet Size	Provide dimensions	10.8" x 9.5" x 1.14-1.26"; 274mm x 242mm x 29-32mm			
Pointing Device	Specify Type of	TrackPoint®, "Press-to-Select," Internet Scroll Bar			
External Mouse Port	Pointing Device Required	Use X4 Dock for mouse port			
Serial Port (Minimum 16550	Acquired	Use X4 Dock for serial devices; qty 2 USB 2.0 ports			
UART)/ 2 USB 2.0		coo 114 Dock for sorial devices, quy 2 OSD 2.0 poils			
On-board 80211 G	Detail Specification	11b/g wireless4, Mini PCI, Intel PRO/Wireless 2200BG,			
	2 Juni Specification	Intel 82532 chipset			
Infrared Port	Required	Infrared Port			
Parallel Port	Bi-directional	Use X4 Dock for parallel port			
Video Capability:					
Required Resolution	1024x768	1024 x 768			
(display)					
Required Colors @ 1024 x	65 Thousand colors	65k colors			
768					





Components	Minimum	Bid Specification		
Components	Specifications			
Colors	16 million colors	16M colors via external display		
Colors	capable via external	Total Golden And Gallery		
	display			
Video Memory	32 MB minimum	Intel Graphics Media Accelerator 900 (GMA 900) /		
1		integrated graphics in 915GM GMCH / uses main		
		memory (up to 128MB with 256MB+) / 200MHz		
Expandable Video Memory	State maximum	Up to 128mb by utilizing main memory		
DVI Interface included?		No		
Multimedia Options	Detail options	Multi-Burner Plus Ultrabay Slim Drive (p/n 73P3342)		
Audio Capability:				
Audio Capability:	Sound Blaster	Soft audio / ICH AC97 controller / DirectSound® support		
Audio	compatible	/ AD1981B AC97 codec / Sound Blaster compatible		
	Companion	7.22.3012.103, 00000, 00000		
Integrated Microphone &	Required	Mono speaker / 0.5 watt / volume up, down, mute buttons		
Speakers	1	/ internal microphone		
		•		
External Microphone &	Required	Microphone input jack (3.5 mm; pink) / headphone jack		
Speaker Ports	<u> </u>	(3.5 mm; green)		
•				
Ethernet Adapter 10/100		Gigabit ethernet on systemboard / Broadcom		
Integrated		BCM5751M (MAC/PHY) / PCIe x1 / PXE		
Modem - integrated or	Hayes compatible	Hayes compatible 56K6 V.90 (V.92-designed29) modem		
PCMCIA	56.6 KB fax/modem	in CDC / Conexant® chipset		
	A = 1			
Battery Life	2-5 hours	2.6 hours		
Maximum Carrying Weight	6 pounds	Weight: 3.5 lb (1.61kg) with 4 cell battery		
including battery & AC		Does not include optical drive and X4 Dock.		
adapter				
Desktop Management Tools:	DMI 2.0 Compliant	DMI 2.0 Compliant		
Desktop Management Interface	DIVIT 2.0 Computant	Divir 2.0 Compitant		
Desktop Management/	List product	Please see Appendix A for list of included ThinkVantage		
Administrative Software	descriptions	Technologies		
Other Management Features	List product	Please see Appendix A for list of included ThinkVantage		
Contra transmission of contract	descriptions	Technologies		
OS Certified: Windows XP	Required	OS certified: Windows XP		
Professional/Microsoft		Professional/Microsoft Windows XP Tablet PC Edition		
Windows XP Tablet PC				
Edition				
Standard OS	Windows XP	Windows XP Tablet PC Edition		
	Professional/Microso			
	ft Windows XP			
	Tablet PC Edition			
Bus Architecture	32 bit PCI	32 bit PCI		
Bus Speed	400 MHz FSB	400MHz FSB		
Graphics interface	AGP adapter	Intel Graphics Media Accelerator 900 (GMA 900) /		
		integrated graphics in 915GM GMCH / uses main		
		memory (up to 128MB with 256MB+) / 200MHz		





Components	Minimum	Bid Specification		
Comp	Specifications			
Warranty - Three year parts		3 year parts and labor warranty included in unit price.		
and labor with State		On-site		
technical staff providing first		First level labor by State technical staff via Lenovo Self		
level labor. Detail if		Maintainer Program.		
warranty is carry-in, depot,				
or cross-ship.				
Warranty - fourth year		4 year parts and labor warranty included in unit price.		
parts and labor with State		On-site		
Technical Staff providing		First level labor by State technical staff via Lenovo Self		
first level labor. Detail if		Maintainer Program		
warranty is carry-in, depot,				
or cross-ship.				
Shipping Costs	Must be included in	Ground Shipping included in unit price		
	base cost/per unit			
Options:				
3.5" swappable floppy drive	Detail	External USB Floppy Drive – p/n 05k9276		
	specifications			
Additional Memory SDRAM		256mb upgrade – p/n 73P3840		
•		512mb upgrade – p/n 73P3842		
		1GB upgrade – p/n 73P3844		
Larger Hard Drives	List options	40GB / 5400 rpm – p/n 08K9816		
	_	80GB / 5400 rpm – p/n 09N4273		
		Portable 40GB USB Hard Drive – p/n 22P7196		
		Portable 80GB USB Hard Drive – p/n 40Y8726		
External Keyboard	List options	IBM Enhanced Performance Keyboard - p/n 73P2620		
Ergonomic Keyboard	104 key Windows	Available via 3rd party		
	compliant minimum			
External Mouse	2 button wheel -	2 button USB Optical Mouse – p/n 06P4069		
	Optical USB 2.0			
	(Microsoft or			
	Logitech			
	compatible)			
Carrying Case Standard	List options	ThinkPad X41 Tablet Sleeve - p/n 30R4959		
Extra battery		Standard 4 Cell Li-Ion Battery – p/n 73P5167		
		Extended 9 Cell Li-Ion Battery – p/n 73P5168		
Extra power pack/ AC		56W Ultraportable AC Adapter – p/n 02k6880		
adapter	*			





Attachment E: Optional Specifications

Product Specifications for CRT Monitors

(All categories must be VESA, TCO and Energy compliant)

Components	Standard CRT Monitor			
,		17''	19"	20 - 21"
Your Model Name/Number		ThinkVision C170 / 6737P69	ThinkVision C190 / 6739P09	Not Available
When was this model introduced?	State date	November 2005	September 2005	
What is the expected market withdrawal date?	State date	4Q06	4Q06	
Dot/Mask Pitch	Minimum of .28	0.25mm diagonal / 0.22 horizontal	0.25mm diagonal / 0.22 horizontal	
Viewable Area:				
Active display area horizontal	State area	12.79"	14.4"	
Active display area vertical	State area	9.6"	10.8"	
Active diagonal display	State area	16.0"	18.0"	
Vertical refresh rate:				
@ 640 x 480	State refresh rate	60Hz	60Hz	
@ 800 x 600	State refresh rate	75Hz	75Hz	
@ 1024 x 768	State refresh rate	75Hz	75Hz	
@ 1280 x 1024	State refresh rate	75Hz	75Hz	
Minimum Resolution:				
17", 19", 20-21" monitors	1280 x 1024	1280 x 1024	1280 x 1024	
Display colors @ min resolution	64K true colors	64K true colors	64k true colors	





Components	Standard CRT			
	Monitor	17"	19"	20 - 21"
Physical Controls	Volume,	On screen	On screen display	#U - #1
2 11,01001 0 0 1101 0 11	brightness,	display with	with digital user	
	contrast,	digital user	controls (5	
	position, color,	controls (5	languages)	
	alignment,	languages)	Tanguages)	
	language	lunguages)	Picture position,	
	language	Picture	size, shape, and	
		position, size,	alignment	
		shape, and	(including	
		alignment	pincushion,	
		(including	pincushion	
		pincushion,	balance, trapezoid,	
		pincushion	parallelogram)	
		balance,	Digital brightness	
		trapezoid,	and contrast	
		parallelogram)	Color tint control,	
		Digital	selectable color	
		brightness and	points (9300K,	
		contrast	6500K, 5500K),	
		Color tint	and color reset	
		control,	Picture tilt and	
		selectable color	moire effects	
		points (9300K,	Manual degauss	
		6500K,		
		5000K), and		
		color reset		
		Picture tilt and		
		moire effects		
		Video input		
		level (0.7V or		
		1.0V)		
		Manual		
		degauss		
Control location	On screen	On screen	On screen	
Dimensions:				
— Width	State width	16.3"	18.0"	
— Height including	State total height	16.9"	18.4"	
swivel base			10.00	
— Depth	State depth	16.5"	18.0"	
Weight	State weight	35.3 lbs	46.8 lbs	
Energy saving features		Power	Power	
Green standards, sleep		management -	management -	
mode required		ENERGY	ENERGY STAR;	
		STAR;	Environmental	
		Environmental	Label - TCO 99	
		Label - TCO 99		
Radiation standards	List standards	Emission -	Emission - 3MPR-	
	1	1		
ď	met	3MPR-II, FCC-	II, FCC-B	





Components	Standard CRT Monitor			
		17''	19"	20 - 21"
Power consumption	State consumption	Power supply - 100-240Vac (universal), 70 watts typical, 50-60Hz	Power supply - 90-264Vac, 100 watts typical, 50- 60Hz	
Screen characteristics	Anti-glare, flat screen etc.	17" full flat shadow mask (flat screen) CRT	19" full flat shadow mask (flat screen) CRT	
Interface Compatibility	USB supports, Serial port, etc.	Analog video input	Analog video input	
Standard Warranty length		3 years	3 years	
Warranty replacement/repair	Cross-ship/quick- exchange, or return to depot	Quick Exchange; Replacement normally arrives in two business days, excluding holidays; Lenovo pays all shipping costs for valid warranty claims	Quick Exchange; Replacement normally arrives in two business days, excluding holidays; Lenovo pays all shipping costs for valid warranty claims	
Shipping Costs	Must be included in base cost/per unit	Included in cost per unit	Included in cost per unit	





Attachment F: Optional Specifications

Product Specifications for LCD Monitors

(All categories must be VESA, TCO and Energy compliant)

Components	Standard LCD Monitor			
	Monitor	17"	19"	20 - 21"
Your Model Name/Number		ThinkVision L171 / 9417AB1	ThinkVision L190 / 9329AB9	ThinkVision L200p / 6736HC9
When was this model introduced?	State date	July 2005	February 2005	August 2004
What is the expected market withdrawal date?	State date	September 2006	June 2006	February 2006
Dot/Mask Pitch	Minimum of .29	.264mm	.294mm	.255mm
Viewable Area:				
Brightness (nits)	Specify	270 nits	250 nits	250 nits
Contrast Ratio	Specify	500:1	500:1	400:1
Video Response Time (ms)	Specify	8ms	12ms	25ms
Horizontal Viewing Angle	Specify	13.4"	14.8"	16.0"
Vertical Viewing Angle		10.7"	11.8"	12.0"
Active diagonal display	State area	17.0"	19.0"	20.1"
Minimum Resolution:				
17", 19", 20-21" monitors	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Display colors @ min resolution	64K true colors	64k true colors	64k true colors	64k true colors





Components	Standard LCD	1		
	Monitor			
		17"	19"	20 - 21"
Physical Controls	Volume, brightness, contrast, position, color, alignment, language	On screen display with digital user controls (6 languages) Direct access (buttons on front) for auto adjustment and brightness; contrast; image horizontal and vertical position; user color settings (3 preset + 1 user); on screen display (OSD) language selection; menu position; information screen; image setup; image size to show normal or expanded format; reset of geometry and color point to factory default settings; lockable	On screen display with digital user controls (6 languages) Direct access (buttons on front) for auto adjustment and brightness / on screen display for contrast, image horizontal and vertical position, user color settings (3 preset + 1 user), language selection, menu position, information screen, image setup, image size to show normal or expanded format, reset of geometry and color point to factory default settings, and lockable settings	On screen display with digital user controls (6 languages) Direct access (buttons on front) for auto adjustment, brightness, and input select; contrast; image horizontal and vertical position; user color settings (3 preset + 1 user); on screen display (OSD) language selection; menu position; display time; information screen; image setup; image size to show normal or expanded format; reset of geometry and color point to factory default settings; lockable settings
Control location	On screen	On screen	On screen	On-screen
Dimensions:				
— Width	State width	14.4"	16.1"	18.4"
— Height including swivel base	State total height	15.0"	16.2"	15.4"
— Depth	State depth	6.4"	8.7"	9.9"
Weight	State weight	10.1 lb	13.4 lb	20.9 lbs





Components	Standard LCD Monitor			
		17"	19"	20 - 21"
Energy saving features Green standards, sleep mode required		Power management - ENERGY STAR; Environmental Label - TCO 99, RoHS	Power management - ENERGY STAR; Environmental Label - TCO 99	Power management - ENERGY STAR; Environmental Label - TCO 99
Radiation standards	List standards met	Emission - MPR-2 / MPR- 3A / FCC Class B	Emission - MPR-2 / MPR-3A / FCC Class B	Emission - MPR-2 / MPR-3A
Power consumption	State consumption	100-240Vac (universal) / integrated (no external brick- like power supply) / 40 watts typical (<2 watts for "active off")	100-240Vac (universal) / integrated (no external brick-like power supply) / 40 watts typical (2 watts for "active off")	100-240Vac (universal) / integrated (no external brick-like power supply) / 65 watts typical (3 watts for "active off")
Screen characteristics	Anti-glare, flat screen etc.	LCD Active Matrix TFT (Thin Film Transistor)	LCD Active Matrix TFT (Thin Film Transistor)	LCD Active Matrix TFT (Thin Film Transistor)
Interface Compatibility	USB supports, Serial port, etc.	Analog video input	Analog video input	Analog video input
Standard Warranty length		3 years (includes backlight)	3 years (includes backlight)	3 years (includes backlight)
Warranty replacement/repair	Cross-ship/quick- exchange, or return to depot	Quick Exchange; Replacement normally arrives in two business days, excluding holidays; Lenovo pays all shipping costs for valid warranty claims	Quick Exchange; Replacement normally arrives in two business days, excluding holidays; Lenovo pays all shipping costs for valid warranty claims	Quick Exchange; Replacement normally arrives in two business days, excluding holidays; Lenovo pays all shipping costs for valid warranty claims
Shipping Costs	Must be included in base cost/per unit	Included in cost per unit	Included in cost per unit	Included in cost per unit





ATTACHMENT G: OPTIONAL SPECIFICATIONS

Product Specification for Standard Workgroup Laser Printer

Components	Target Minimum Specifications	Bid Specification
Your Model Name/Number	Please provide	Lexmark W840dn, 3 Hole Finisher, 2,000 sheet dual input
When was this model introduced?	State date	6-27-2005
What is the expected market withdrawal date?	State date	Not Released
Print Speed	Minimum 32 ppm	50 PPM
First page out	Provide	7 seconds
Processor Speed	Provide MHz	625 MHz
Print Technology	Provide	Laser
Print Quality	1200 dpi	1200x1200 dpi
Memory, Standard	32 MB	256 MB
Memory, Maximum	Provide	768 MB
NIC Card	10/100 Ethernet	10/100 Ethernet
Standard Connectivity	IEEE 1284-	Ethernet, USB, Parallel, 1 ISP slot
·	compliant bi- directional parallel	
Paper trays, standard	3	3
Paper trays, maximum	4	6
Input capacity, standard	1,100 sheets	3,100
Input capacity, maximum	3,100 sheets	5,100
Envelope Feeder	10 envelopes	100 multipurpose tray
Output capacity, standard	600 sheets	3,800
Output capacity, maximum	3,600 sheets	3,800
Duplex Printing	Standard	Standard
Paper handling	2000 sheet input tray, stapler/sorter	Yes, with 2000 Sheet Dual Input Tray and 3-Hole Finisher
Media sizes, standard	Card stock, letter, executive, legal, tabloid, envelopes	Letter, Legal, Tabloid, Executive, Envelopes, Card Stock
Media types	Paper, including, but not limited to; plain, pre-printed,	Plain Paper, Envelopes, Card Stock, Transparencies, Paper Labels,
	letterhead, bond, transparencies, envelops, and labels.	
Monthly duty cycle	150,000 pages minimum	300,000
Print Languages	PCL 6, PCL 5e, PostScript Level 3	PostScript 3, PCL 6, PPDS
Parallel Port	Bi-directional	IEEE 1284 Bi-Directional Parallel
IEEE 1284 6' cable	Required	CABLE NEEDED TO BE ADDED





Components	Target Minimum Specifications	Bid Specification
Dimensions	Provide dimensions	24.3 x 20.5 x 18.7
Included Software	List product	Printer Driver
	descriptions	
Other Management Features	List product	Lexmark MarkVision Utilities, Internal Web Interface,
·	descriptions	Telnet
OS Certified: Windows XP	Required	Yes
Professional compatible	_	
Warranty - three year parts		Offered
and labor with State technical		
staff providing first level labor		
Warranty - fourth year parts		Offered
and labor with State technical		
staff providing first level labor		
Options:		
Additional Memory SDRAM		Offered
Additional 500 sheet paper		Offered
drawer		
Additional 2000 sheet paper		Offered
drawer		
Additional toner cartridges		Offered
Optional upgrade kit,		Not available on this unit
including scanning, copying		
and faxing capability		





Attachment H: Optional Specifications

Product Specification for Standard Individual-User/Small Workgroup Laser Printer

Components	Target Minimum	Bid Specification
Components	Specifications	Dia Specification
Your Model Name/Number	Please provide	Lexmark W812tn
When was this model	State date	10-28-02
introduced?		
What is the expected market withdrawal date?	State date	Not Released
Print Speed (letter-size)	Minimum 22 ppm	26 PPM
First page out	Provide	8 Seconds
Processor Speed	Provide MHz	300 MHz
Print Technology	Provide	Laser
Print Quality (resolution)	1200 dpi	1200 Image Quality
Memory, Standard	16 MB	32 MB
Memory, Maximum	at least 144MB;	288 MB
	state maximum	
Optional NIC Card	10/100 Ethernet	10/100 Ethernet
Standard Connectivity	IEEE 1284-	Ethernet, USB, 1 ISP Slot
Ĭ	compliant bi-	
	directional parallel	
	or USB 2.0-	
	compatible	
Monthly Duty Cycle	10,000 pages	65,000 Pages
Paper trays, standard	1	3
Paper trays, maximum	2	4
Input capacity, standard	200 sheets	650
Input capacity, maximum	500 sheets	1,400
Optional Envelope Feeder	state	Multipurpose Feeder
Output capacity, standard	100 sheets	250
Output capacity, maximum	125 sheets	250
Duplex Printing	optional	Optional
Paper handling	250-sheet input tray	2 x 250 sheet trays, 150 sheet multipurpose feeder
Media sizes, standard	Card stock, letter,	Tabloid, Executive, Folio, Letter, Legal, Universal,
	executive, legal,	Envelopes
	tabloid, envelopes	
Media types	Paper, including,	Plain Paper, Envelopes, Card Stock, Transparences, Paper
	but not limited to;	Labels
	plain, pre-printed,	
	letterhead, bond,	
	transparencies,	
	envelops, and labels.	
Print Languages	PCL 6, PCL 5e;	PS 3, PCL 6, PPDS Migration Tools
	optional: PostScript	
	Level 2	





Components	Target Minimum	Bid Specification
Components	Specifications	blu Specification
Parallel Port		WEET 1004 Di Diii Dii-i Oi
	Bi-directional	IEEE 1284 Bi-Directional Parallel Option
6' printer cable required		NEED TO ADD CABLE
	1284 parallel or	
	USB 2.0	
Dimensions	Provide dimensions	18.1 x 16.9 x 15.4
Included Software	List product	Printer Drivers
	descriptions	
Other Management Features	List product	Lexmark MarkVision Utility, Internal Web Page, Telnet
	descriptions	
OS Certified: Windows XP	Required	Yes
Professional-compatible		
Warranty - three year parts	,	Available
and labor with State technical	\	·
staff providing first level labor		
Warranty - fourth year parts		Available
and labor with State technical		
staff providing first level labor		
Shipping Costs	Must be included in	Varies based on quantity
11 0	base cost/per unit	1 ,
Options:		
Additional Memory SDRAM		Available
options		
Additional 250 or 500 sheet		Available
paper tray		
Additional toner cartridges		Available
Optional upgrade kit,		N/A
including scanning, copying		
and faxing capability		



Attachment I: Optional Specifications

Product Specification for Standard Color Inkjet Printers

Components	Target Minimum Specifications	Bid Specification
Your Model Name/Number	Please provide	Lexmark Model Not Available. Lenovo is open to providing a separate brand to meet required specifications.
When was this model introduced?	State date	
What is the expected market withdrawal date?	State date	
Print Speed (black)	Minimum 22 ppm	
Print Speed (color)	Minimum ppm	
Print Resolution (black)	Minimum 1200x1200 dpi	
Print Resolution (color)	Minimum 4800x1200 dpi	
Print Technology	Thermal Inkjet	
Print Quality	1200 dpi	
Memory, Standard	8 MB	
Memory, Maximum	Provide	
Standard Connectivity	IEEE 1284- compliant bi- directional parallel	
Paper trays, standard	1	
Paper trays, maximum	Provide	
Input capacity, standard	100 sheets	
Output capacity	60 sheets	
Media sizes, standard	Letter, Executive, legal, commercial #10 envelopes	
Media types	Paper, including, but not limited to; plain, pre-printed, letterhead, bond, transparencies, envelops, and labels.	
Print Languages	PCL 6, PCL 5e, PostScript Level 3	
Standard Port	USB 2.0 Specification Hi- Speed Certified	
USB 2.0 certified cable	Required	
Dimensions	Provide dimensions	