Annex II

Technical Specifications for Lots A1, A2, A4, B1: Illustrative list of items to be purchased under the Open Call for Tender EEA/OIPI/99/007

Position	Lot	Product Description	Applicable Standards

A1. Desktop computers and servers of similar architecture, their accessories, and maintenance
Example PC Configuration

Position	Lot	Product Description	Applicable Standards
1	A1	Pentium 450 MHz computer with 4.3 GB harddisk, 128 MB memory, 4 MB video memory, resolution of 1280*1024,19" CRT display, network adapter 10/100 Mbit TP / PCI, mouse, floppy, sound card, speakers, CD-ROM drive and Windows NT 4.0 Workstation (UK-Version)	1) The system unit and the display must meet the Energy Star Computer Programme 98 requirement (US EPA). 2) Regarding ergonomics the display must meet the requirements defined in ISO-9241-3 (CRT display) or ISO 13406-2 (LCD display) and the keyboard must meet the requirements defined in ISO 9241-4.3 (Keyboard). 3) Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05. 4) Construction of the system unit, display and keyboard should follow principles according to the VDI2243 outline. 5) The system unit must meet the requirement for declared maximum sound power level (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of 55 dB in operate mode. 6) The system unit and display must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC. 7) Sales packaging of system unit, display and keyboard have to comply with the

				packaging directive 94/62/EEC.
2	A1	PC keyboard, layout available for any EU language plus Norwegian, Icelandic and Swiss-German	1)	Regarding ergonomics the keyboard must meet the requirements defined in ISO-9241-4.3.
			2)	Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05.
			3)	Construction of the keyboard should follow principles according to the VDI2243 outline.
			4)	Sales packaging of keyboard have to comply with the packaging directive 94/62/EEC.
3	A1	15" flat screen (price difference when exchanged to display in Position #1)	1)	The display must meet the Energy Star Computer Programme 98 requirement (US EPA).
			2)	Regarding ergonomics the display must meet the requirements defined in ISO-13406-2.
			3)	Requirements for electric and magnetic fields of the display are based on measurement method MPR 1998:8.
			4)	Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05.
			5)	Construction of the display should follow principles according to the VDI2243 outline.
			6)	The display must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC.
4	A1	17" flat screen (price difference when exchanged to display in Position #1)	1)	The display must meet the Energy Star Computer Programme 98 requirement (US EPA).
			2)	Regarding ergonomics the display must meet the requirements defined in ISO-13406-2.
			3)	Requirements for electric and magnetic fields of the display are based on measurement method MPR 1998:8.
			4)	Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05.
			5)	Construction of the display should follow principles according to the VDI2243 outline.
			6)	The display must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC.
5	A1	CD writer, extern, 24X / 4X / 2MB /		

		SCSI
6	A1	Graphics Card, AGP / 8 MB
7	A1	Harddisk Drive 4.3 GB IDE
8	A1	Multimedia Speakers
9	A1	SCSI Card, Ultra Wide SCSI
10	A1	SCSI Cable, (miniature plug on one side)
11	A1	SCSI Disk 9 GB
12	A1	SCSI DAT Drive 4-8 GB
13	A1	SCSI DLT Drive 45 GB
14	A1	Mouse, 3-button, PS/2
15	A1	Network Card, 10/100Mbps / TP / PCI

Example Server Configuration

16	A1	Storage for Server (Disk Array), rack mountable, hot pluggable hard drives in RAID 5, redundant power-supplies and fans, hot spare drive
17	A1	Backup Solution for Server Storage (Disk Array), rack mountable, automatic backup, hardware, drivers and software for Windows NT 4.0 Server
18	A1	Server 450 MHz, dual-processor, Rack mountable, 2MB L2 cache, 1GB RAM, Network Card 100Mbps / TP / PCI, 60 GB of hot-pluggable hard disk in RAID 5, DLT tape station, CD-ROM drive, resolution of 1024*768 on 17" screen, redundant and fault tolerant concerning power-supply and fans, Windows NT 4.0 Server (UK-version)

1) The display subsystem must meet the Energy Star Computer Programme 98 requirement (US EPA).

2) Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05.

3) Regarding ergonomics the display must meet the requirements defined in ISO-9241-3 (CRT display) or ISO 13406-2 (LCD display) and the keyboard must meet the requirements defined in ISO 9241-4.3 (Keyboard).

4) Construction of the system unit, display and keyboard should follow principles according to the VDI2243 outline.

5) The system unit and display must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC.

6) Sales packaging of system unit, display and keyboard have to comply with the

			packaging directive 94/62/EEC.
19	A1	Warranty and subsequent maintenance for Positions #1 to #15	SLA to be suggested by tenderer
20	A1	Warranty and subsequent maintenance for Positions #16 to #18	4 hour response time during working hours (Monday to Friday from 08:00 to 17:00 hours), exact SLA to be suggested by tenderer

A2. Portable and hand-held computers, mobile phones, accessories, and maintenance

1	A2	Laptop PC, maximum weight inc. batteries 4.0 kg, 366 MHz, 128 MB memory, 13,3" TFT, 2 GB harddisk, combo PCMCIA network adapter for TP and modem connection, pointing device, floppy, CD-ROM drive, keyboard layout available in any EU language, Windows 98 (UK-Version) or alternatively Windows NT 4.0 Workstation (UK-Version)	1) The power consumption of the portable computer has to meet the low-power mode requirements according to specification NUTEK 803299/94. Compliance has to be separately explained for all the operating systems offered. 2) Regarding ergonomics the display must meet the requirements defined in ISO 13406-2 (LCD display) and the keyboard must meet the requirements defined in ISO 9241-4.3 (Keyboard). 3) Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05. 4) Construction of the system unit, display and keyboard should follow principles according to the VDI2243 outline. 5) The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC. 6) The portable computer must meet the requirement for declared maximum sound power level (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of 55 dB in operate mode. 7) The portable computer must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC. 8) Sales packaging has to comply with the packaging directive 94/62/EEC.
2	A2	Docking station for laptop PC	
3	A2	Carrying case for laptop PC	
4	A2	Mini notepad computer, compatible with common e-mail and calendar systems (MS Outlook, Lotus Notes...) with a max. weight including batteries of 0.25 kg, synchronisation cable and software to desktop PC, 4 MB memory,	1) The power consumption of the mini notepad has to meet the low-power mode requirements according to specification NUTEK 803299/94. 2) Regarding ergonomics the display must meet the requirements defined in ISO 13406-2 (LCD display). 3) Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05. 4) Construction of the mini notepad should follow principles according to the VDI2243

		modem connectivity	outline. 5) The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC. 6) The mini notepad must meet the requirement for declared maximum sound power level (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of 55 dB in operate mode. 7) The portable computer must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC. 8) Sales packaging of Mini Notepad has to comply with the packaging directive 94/62/EEC.
5	A2	Carrying Case for Mini Notepad	
6	A2	Handheld PC, compatible with common e-mail and calendar systems (MS Outlook, Lotus Notes...) with a max. weight including batteries of 0.5 kg, synchronisation cable and software to desktop PC, 8 MB memory, modem connectivity	1) The power consumption of the handheld PC has to meet the low-power mode requirements according to specification NUTEK 803299/94. 2) Regarding ergonomics the display must meet the requirements defined in ISO 13406-2 (LCD display). 3) Packaging has to be identified in accordance with 97/129/EEC and marked in accordance with 96/C382/05. 4) Construction of the handheld PC should follow principles according to the VDI2243 outline. 5) The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC. 6) The handheld PC must meet the requirement for declared maximum sound power level (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of 55 dB in operate mode. 7) The handheld PC must meet the requirements for electrical safety in accordance with EN 60950/A1, A2 and for electromagnetic compatibility in accordance with EN 55022 and the EU directive 89/336/EEC. 8) Sales packaging of handheld PC has to comply with the packaging directive 94/62/EEC.
7	A2	Carrying case for the handheld PC	
8	A2	Warranty and subsequent maintenance of position #1	SLA to be suggested by tenderer
9	A2	Warranty and subsequent maintenance of position #4	SLA to be suggested by tenderer
10	A2	Warranty and subsequent	SLA to be suggested by tenderer

		maintenance of position #6		
11	A2	Mobile phone GSM, minimum talking time 4 hours, standby time 250 hours, including accu	1)	The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC.
12	A2	Carrying case for mobile phone GSM		
13	A2	Desk charging unit for mobile phone GSM		

A4. Impact printers, laser printers, ink-jet printers, plotters, scanners, and their maintenance

1	A4	Colour printer (ink), resolution 600x600 dpi, separate colour cartridges, memory 2 MB, 8 pages (colour) per minute, network connection ready, 1 paper tray plus manual feed	1)	Plastic parts (over 25 g) must be identified according to ISO 11469 and marked clearly.
			2)	Ink cartridges must be re-useable and recyclable as materials.
			3)	The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC.
			4)	The printer must be able to print on A4 cut sheet recycling paper.
			5)	Ink may not contain substances, which are classified by EEC directive 67/548/EEC, 21st amendment as environmentally hazardous.
			6)	Ozone concentrations in air may not exceed 0.02 mg/m3 and dust concentrations in air may not exceed 0.15 mg/m3 in accordance with RAL-UZ 62.
			7)	The printer must meet the Energy Star Computer Programme 98 requirement (US EPA).
			8)	Sales packaging of the printer have to comply with the packaging directive 94/62/EEC.
			9)	The maximum noise values (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of the printer during use must not exceed 55 dB and during standby mode 40 dB.
			10)	The printer must meet the requirements for electrical safety in accordance with EN 60950/A1, A2, A3 and for electromagnetic compatibility in accordance with EN 61000-3-2 or EN 60555-2.
2	A4	Additional paper tray for colour printer (Ink) to hold approx. 250 sheets of paper		
3	A4	Laser printer, resolution 1200x1200dpi, memory 8MB, 10 pages per minute, network connection ready, 2 paper trays	1)	Plastic parts (over 25 g) must be identified according to ISO 11469 and marked clearly.
			2)	Toner cartridges must be re-useable and recyclable as materials.
			3)	The contents of certain heavy metals in batteries and/or accumulators may not

		plus one manual feed (envelopes)	exceed the limit in accordance with the requirements of EU directive 91/157/EEC. 4) The printer must be able to print on A4 cut sheet recycling paper. 5) Toner may not contain substances, which are classified by EEC directive 67/548/EEC, 21st amendment as environmentally hazardous. 6) Ozone concentrations in air may not exceed 0.02 mg/m3 and dust concentrations in air may not exceed 0.15 mg/m3 in accordance with RAL-UZ 62. 7) The printer must meet the Energy Star Computer Programme 98 requirement (US EPA). 8) Sales packaging of the printer have to comply with the packaging directive 94/62/EEC. 9) The maximum noise values (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of the printer during use must not exceed 55 dB and during standby mode 40 dB. 10) The printer must meet the requirements for electrical safety in accordance with EN 60950/A1, A2, A3 and for electromagnetic compatibility in accordance with EN 61000-3-2 or EN 60555-2.
4	A4	Additional paper tray for laser printer to hold approx. 500 sheets of paper	
5	A4	Colour printer (laser), resolution 600x600 dpi, separate colour toner cartridges, memory 32 MB, 4 pages (colour) per minute, network connection ready, 2 paper trays plus manual feed	1) Plastic parts (over 25 g) must be identified according to ISO 11469 and marked clearly. 2) Toner and ink cartridges must be re-useable and recyclable as materials. 3) The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC. 4) Printers must be able to print on A4 cut sheet recycling paper. 5) Toner may not contain substances, which are classified by EEC directive 67/548/EEC, 21st amendment as environmentally hazardous. 6) Ozone concentrations in air may not exceed 0.02 mg/m3 and dust concentrations in air may not exceed 0.15 mg/m3 in accordance with RAL-UZ 62. 7) The printer must meet the Energy Star Computer Programme 98 requirement (US EPA). 8) Sales packaging of the printer have to comply with the packaging directive 94/62/EEC. 9) The maximum noise values (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of the printer during use must not exceed 55 dB and during standby mode 40 dB.

			10) The printer must meet the requirements for electrical safety in accordance with EN 60950/A1, A2, A3 and for electromagnetic compatibility in accordance with EN 61000-3-2 or EN 60555-2.
6	A4	Additional paper tray for colour printer (laser) to hold approx. 500 sheets of paper	
7	A4	Preventive maintenance and support for position #1 and accessories	SLA to be suggested by tenderer
8	A4	Preventive maintenance and support for position #3 and accessories	SLA to be suggested by tenderer
9	A4	Preventive Maintenance and support for position #5 and accessories	SLA to be suggested by tenderer
10	A4	Preventive maintenance and support for position #12 and accessories	SLA to be suggested by tenderer
11	A4	Flatbed scanner, A4, colour and monochrome, 20 page automatic document feeder, resolution 1200x1200 dpi, scan and OCR software and documentation	1) Plastic parts (over 25 g) must be identified according to ISO 11469 and marked clearly. 2) The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC. 3) Ozone concentrations in air may not exceed 0.02 mg/m3 and dust concentrations in air may not exceed 0.15 mg/m3 in accordance with RAL-UZ 62. 4) The scanner must meet the Energy Star Computer Programme 98 requirement (US EPA). 5) Sales packaging of the scanner have to comply with the packaging directive 94/62/EEC. 6) The maximum noise values (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of the scanner during use must not exceed 55 dB and during standby mode 40 dB. 7) The scanner must meet the requirements for electrical safety in accordance with EN 60950/A1, A2, A3 and for electromagnetic compatibility in accordance with EN 61000-3-2 or EN 60555-2.
12	A4	Colour plotter, A0 paper, resolution 600x600, network connection	1) Plastic parts (over 25 g) must be identified according to ISO 11469 and marked clearly.

ready, separate colour cartridges, Post-Script 3, 32 MB memory

2) Toner and ink cartridges must be re-useable and recyclable as materials.
3) The contents of certain heavy metals in batteries and/or accumulators may not exceed the limit in accordance with the requirements of EU directive 91/157/EEC.
4) Printers must be able to print on A4 cut sheet recycling paper.
5) Toner and ink may not contain substances, which are classified by EEC directive 67/548/EEC, 21st amendment as environmentally hazardous.
6) Ozone concentrations in air may not exceed 0.02 mg/m3 and dust concentrations in air may not exceed 0.15 mg/m3 in accordance with RAL-UZ 62.
7) The printer must meet the Energy Star Computer Programme 98 requirement (US EPA).
8) Sales packaging of the printer have to comply with the packaging directive 94/62/EEC.
9) The maximum noise values (A-weighted sound pressure level according to ISO 7779 and ISO 9296) of the printer during use must not exceed 55 dB and during standby mode 40 dB.
10) The printer must meet the requirements for electrical safety in accordance with EN 60950/A1, A2, A3 and for electromagnetic compatibility in accordance with EN 61000-3-2 or EN 60555-2.

B. Computer software
B1. Microcomputer software and its maintenance

1	B1	Desktop publishing software (like FrameMaker, Adobe Illustrator, Adobe PhotoShop, Adobe PageMill, QuarkExpress) for Windows NT	

N.B.: Brand names mentioned for software are for example only and do indicate no requirement for any particular brand. The EEA has no applicable standards in the listed types of software in lot B1. The tenderers are invited to list prices of a wide range of products of each type. The EEA also uses European Commission's framework contracts for procurement and therefore this list is limited.

2   B1   Web publishing software like DreamWeaver, Adobe WebType, HotMetal Pro for Windows NT

3   B1   Desktop Publishing software (like Adobe Illustrator, Adobe PhotoShop, Adobe PageMill, QuarkExpress) for Macintosh

4	B1	CASE and data modelling software like Rational Rose, Cool:Biz for Windows NT and Windows 95
5	B1	Backup and restore software for Windows NT like Arcada Backup
6	B1	Statistical analysis software
7	B1	System management and monitoring software like Hyena, Kixtart
8	B1	Desktop utilitity programmes like Powerdesk, WinZip, Real Player

Notes:

1) The items in this list comprise specifications for purchase of information technology products and services. Based on the unit prices given by the tenderer for items on this list, the EEA will draw a sample purchase with appropriate quantities for first and second quarters of year 2000, which will form the basis for cost evaluation.
2) All the products are English language versions.
3) All the provided power plugs must comply with the Danish standard.
4) Eventual warranties on all items must be explicitly stated. Additional paid maintenance has been requested separately for certain items above, where the tendered has to suggest a Service Level Agreement (SLA) as part of the tender.
5) The packaging material of the supplied goods will be handed over to the supplier by EEA for future re-use or recycling.
6) For every unit sold, the tenderer should offer the EEA the opportunity to deposit corresponding used product for recycling (repair, re-use, materials recycling or energy recovery if materials recycling is not commercially possible), irrespective of origin. The used product has to be taken back for recycling free of charge, for example a used display can be handed in when buying a display.
7) The tenderer should also make a statement of his readiness to offer trade-in for used equipment (exact repayment to be negotiated for each item to be traded in) to equipment of higher capacity, concerning storage, processor performance and throughput.
8) Compliance with applicable standards for each item must be explicitly stated and documented in order to count towards the award criterion on environmental or other requirements. Non-compliance does not directly disqualify the offer, but reduces the evaluation score.