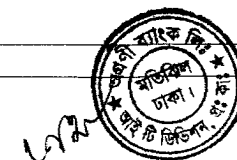


Serial No.	Contract Package No	Name of Contract (Brief Description)	Quantity/ Number	Estimated Cost (in US\$) OR Actual Contract Price with Contract Currency.	Procedure/ Method	Prior Review (Yes/No)	Planned date of delivery/ completion OR Actual date of delivery/ Completion	Planned date of Contract signing OR Actual date of Contract signing	Name of Supplier/ Contractor /Consultant	Progress of Procurement as of January, 2009
1	2	3	4	5	6	7	8	9	10	11
NCB Automation Equipment				US\$10,344,828 (Tk.600,000,000)						
		Network, server, hardware, software, ancillaries and other office equipment .								
	G-7.1 (AB)	Agrani Bank Ltd: Procurement of computer, printer, related accessories for automation of 150 Branches. <ul style="list-style-type: none"> • server 1 • Pc 3 • Printer 2 • Scanner 1 • Antivirus & LAN 	Server with O/S – 150, PC – 450, Mid range printer–150, Small printer–150, Scanner – 150, Switch – 150, Antivirus – 150, LAN – 150.	Tk. 8,83,50,000	ICB	Yes	Dec 30, 09	July 30, 09		Due to delay in signing SLA, procurement could not be effected as per WB approval plan. As such revised procurement plan is submitted again for approval along with a copy of tender document updated with all suggested rectification. Tender will be floated after WB approval by Feb,09.
	G-7.2 (AB)	Agrani Bank Ltd. : Procurement of computer, printer, related accessories for up-gradation of computerized 150 branches,52 zonal offices, 30 head office divisions and 7 circle offices.	Server with O/S – 150, PC – 269, Mid range printer– 202, Antivirus – 209.	Tk. 7,41,63,000	ICB	Yes	Dec 30, 09	July 30, 09		As above
	G-7.3 (AB)	Agrani Bank Ltd.: Procurement of 1000 VA on-line UPS and 1000 VA offline UPS	On-line UPS - 300 & Off-line UPS - 869	Tk. 1,48,45,000	NCB	No	Dec 30, 09	July 30, 09		As above
	G-7.4 (AB)	Agrani Bank Ltd.: Procurement of Air-coolers (Split type + Window type)	150	Tk. 1,00,20,000	NCB	No	Dec 30, 09	July 30, 09		As above
	G-7.5 (AB)	Agrani Bank Ltd.: Procurement of petrol Generators	207	Tk. 1,26,,27,000	NCB	No	Dec 30, 09	July 30, 09		As above
	Total			Tk. 20,00,05,000						



IT Investment Plan of Agrani Bank Limited (under EGBMP finance)

Overview of existing IT used in Agrani Bank Limited

Agrani Bank Limited is a leading commercial bank in Bangladesh with its branches across the country. Presently the Bank is having a three-tier structure with Head Office at Dhaka, 7 Circle Offices, 52 Zonal Offices and 866 branches all over Bangladesh. Agrani Bank Limited also has two subsidiary companies, viz., Agrani Exchange House, Singapore and Agrani Remittance House, Malaysia engaged in serving non-resident Bangladeshi nationals for foreign remittance.

Agrani Bank Limited's 241 branches are partially computerised with various applications supported by local databases in LAN environment. These applications are running on platforms like COBOL/OS 400, Oracle/VB and FoxPro. Remaining branches spread out across the country are under manual operations.

Currently, the following major functions are computerised at the Head office by means of COBOL-based applications under IBM AS-400 midrange computer platform.

- **Consolidation of financial statements of all partially computerised and manually operated branches**
- **Inter-branch reconciliation of fund transfer**
- **HR and pay roll**

Agrani Bank Limited has presently 19 off-line ATMs (e-cash) running at various locations in Dhaka and Chittagong under a shared ATM switch. Also, the bank provides off-line debit card product 'Ready cash' cards are used for making payment in selected shops in Bangladesh.

SWIFT application and connectivity is available to 14 branches of Agrani Bank Limited through the bank's SWIFT server at the bank's Head office.

Background of the Proposal

Agrani Bank Limited is persuading implementation of its Long Term IT Investment Plan. The estimated investment is BDT. 57.00 crore. Implementation of On-line Banking in 40 core branches with an estimated cost of BDT. 35.00 Crore is under progress shall be financed from bank's own budget. As per decision at last meeting held on NCB's Automation, a concise proposal is hereby submitted to EGBMP. EGBMP may finance the procurement of related hardware to be required to implement the proposed part of automation plan.

A. COMPUTERIZATION OF 150 BRANCHES IN LAN ENVIRONMENT

- a. **Procurement of Hardware along with Operating Software and Anti Virus Software**
- b. **Procurement of Printer and Scanner**
- c. **Procurement of Generator**
- d. **Procurement of Air Cooler**
- d. **Procurement of UPS (On line & Off line)**
- e. **Procurement of LAN accessories**
- f. **Procurement of Branch Banking Software (to be financed from Bank's own budget)**
- g. **Implementation along with Data entry (to be financed from Bank's own budget)**



B. UPGRADATION OF COMPUTERIZED BRANCHES AND ENHANCEMENT OF AUTOMATION CAPABILITIES / FACILITIES OF ZONAL OFFICES, CIRCLE OFFICES AND HEAD OFFICE DIVISIONS.

- a. Up-gradation of 150 Computerized branches(150 Server,150pc,150Printer,150 Online and 150 Offline UPS)
- b. Enhancement of automation/ facilities for 52 Zonal Offices (52Pc,52printer,52 Offline UPS)
- c. Enhancement of automation/ facilities for 7 Circle Offices(7pc,7 Offline UPS)
- d. Enhancement of automation/facilities for 30 Head Office Divisions(60pc,60 Off-line UPS)
- e. Procurement of Anti Virus Software (239 units).
- f. Procurement of Generator for 52 Zonal Offices, 7 Circle offices (57 units).

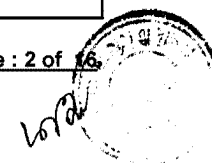
SUMMARY OF INVESMENT TO CONSIDER FIANANCIAL ASSISTANCE BY ENTERPRISE GROWTH AND BANK MODERNIZATION PROJECT (EGBMP)

A	COMPUTERIZATION OF 150 BRANCHES IN LAN ENVIRONMENT	Tk. 11,51,10,000
B	UPGRADATION OF COMPUTERIZED BRANCHES AND ENHANCEMENT OF AUTOMATION CAPABILITIES / FACILITIES OF ZONAL OFFICES, CIRCLE OFFICES AND HEAD OFFICE DIVISIONS.	Tk. 8,49,13,000
A+B	TOTAL	Tk. 20,00,23,000

Implementation Plan, estimated cost is furnished below ;

A. COMPUTERIZATION OF 150 BRANCHES IN LAN ENVIRONMENT (Excluding Branch Banking Software & data entry cost) (Taka In Lac)

System spec. Items	Configuration and Assumptions	Unit	Est. Unit price in BDT	Est. Total price in BDT	Comments
Server with Operating software(OS)		150	3.22	483.00	
PC with Preloaded OS		450	0.53	238.50	
Mid Range Printer		150	0.50	75.00	
Small Printer		150	0.15	22.50	
On Line UPS		150	0.40	60.00	
Off Line UPS		600	0.05	30.00	
Scanner		150	0.05	7.50	
LAN		150	0.14	21.00	
Switches		150	0.08	12.00	
Anti Virus Software		150	0.06	9.00	
Generator		150	0.61	91.50	
Air Cooler (Split Type)		90	0.81	72.90	
Air Cooler (Window Type)		60	0.47	28.20	
Total				1151.10	To be financed by EGBMP.



**B. UPGRADATION OF COMPUTERIZES BRANCHES AND ENHANCEMENT OF
AUTOMATION CAPABILITIES/FACILITIES OF ZONAL OFFICES, CIRCLE
OFFICES AND HEAD OFFICE DIVISIONS.**
(Taka in Lac)

System spec. Items	Configuration and Assumptions	Unit	Est. Unit price in BDT	Est. Total price in BDT	Comments
Procurement of Server with OS (Branch)		150	3.22	483.00	
Procurement of PC with preloaded OS (Branch)		150	0.53	79.50	
Procurement of Off Line UPS (Branch)		150	0.05	7.50	
Procurement of Anti virus software (Branch)		150	0.06	9.00	
Procurement of Mid Range Printer (Branch)		150	0.50	75.00	
Procurement of On Line UPS (Branch)		150	0.40	60.00	
Procurement of PC with preloaded OS (HOD)		60	0.53	31.80	
Procurement of Anti virus software (HOD)		30	0.06	1.80	
Procurement of Off Line UPS (HOD)		60	0.05	3.00	
Procurement of PC with preloaded OS (ZO)		52	0.53	27.56	
Procurement of Anti virus software (ZO)		52	0.06	3.12	
Procurement of Mid Range Printer (ZO)		52	0.50	26.00	
Procurement of Off Line UPS (ZO)		52	0.05	2.60	
Procurement of Generator (ZO)		52	0.61	31.72	
Procurement of PC with preloaded OS (CO)		7	0.53	3.71	
Procurement of Off Line UPS (CO)		7	0.05	0.35	
Procurement of Antivirus (CO)		7	0.06	0.42	
Procurement of Generator (CO)		5	0.61	3.05	
Total				849.13	
Grand Total (A + B)				2000.23	To be procured and financed by EGBMP

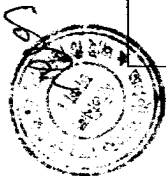


- (A) Detail of specification, configuration and Estimated cost for hardware to be procured and financed by EGBMP for Automation of 150 Branches is furnished below;

HARDWARE SPECIFICATION:

01(a). SERVER:

Server (Minimum Requirements)			Qty. 150 pcs
Sl	Item Description	Required Spec	Offered Specification
01	Brand Name	International reputed brand	
02	Model	To be mentioned by the bidders.	
03	Country of Origin	To be mentioned by the bidders.	
04	Country of Assemble	To be mentioned by the bidders.	
05	Processor	Quad-Core Intel Xeon Minimum 2.33 GHz with support for two processors (Intel 5000 Series Chipset).	
06	L2 Cache	Minimum 8MB L2 Cache per processor.	
07	Front Side Bus	1333 MHz FSB	
08	RAM	4GB DDR2 SDRAM Min 667 MHz expandable to min 32 GB	
09	Hard Disk Drive	Min. 4 x 146 GB, 15K Hot Swappable/Pluggable SAS Hard Disk	
10	Chassis Form Factor	Tower	
11	Drive Controller	SAS Controller with 3 Gbps transfer rate	
12	RAID controller	Min. 256MB Battery Backed Cache with RAID Level 0,1,5 Support	
13	Optical Drive	Internal DVD RW factory installed.	
14	NIC	Integrated Dual Port Gigabit Ethernet	
15	Expansion Slot	Minimum 3 PCI Express and 3 PCI-X Expansion slots (Vendor should provide details)	
16	I/O Ports	2 x Ethernet, 1 x Serial, 4 USB v2.0, 1 Graphics Port	
17	Graphics	Integrated Server Graphics Controller with min 16 MB Memory	
18	Mouse	USB Optical Scroll Mouse with pad (Same Brand as System Unit)	
19	Keyboard	USB 104 Key US type Keyboard (Same Brand as System Unit)	
20	Bays	Minimum 8 drive/media bays including 6 hot plug hard drive Bays	
21	Power Supply	Dual Hot Plug Redundant (Mention the capacity)	
22	Cooling Fan	Redundant cooling fan.	
23	Monitor	1 7inch LCD Color Monitor (same brand as system unit)	
24	OS Certification	Microsoft® Windows® 2000 Server, Windows® Server 2003, Windows Server 2008 (when available). Red Hat Linux As-4	



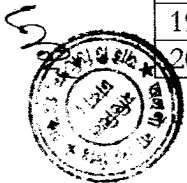
25	System Management Server	Management Software for OS Installation and configuration tools & other utilities.	
26	Warranty	Three Years full warranty with parts and labor	
27	Certification	ISO 9001:2000 and FCC Class B certificate.	
28	Brochures/ Literatures	Please attach relevant documents to claim the above specification.	

01(b). OPERATING SOFTWARE:

Operating Software:			Qty. 150 Pcs
Sl	Item Description	Required Specification	Offered Specification
01	Operating Software	Windows 2003 Server (Std. Edition) or latest standard edition. Paper/ volume license in the name of Agrani Bank Limited License for 150 Server installation and 450 CAL.	

02. MICRO-COMPUTER:

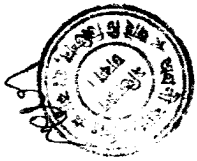
Micro-Computer			Qty. 450 Pcs
Sl	Item Description	Required Specification	Offered Specification
01	Brand	Internationally reputed brand.	
02	Model	To be mentioned by the bidders.	
03	Country Of Origin	To be mentioned by the Bidders	
04	Processor	Intel Core 2 Duo 2.40 GHz or higher,	
05	Chipset	Intel G3 1 Express or higher	
06	FSB Speed	1066 MHz or higher	
07	Cache memory	4MB or higher L2 Cache	
08	RAM	2 GB (2x1GB) Min. DDR2 667 MHz SDRAM expandable upto 4GB	
09	Hard Disk	160 GB SATA (7200 rpm) or higher.	
10	Graphics	Integrated Graphics	
11	NIC	Integrated 1 0/1 00/1 000 Mbps	
12	Port	1 VGA, 8 USB ports, 1 serial port, 1 parallel port, RJ-45 network port	
13	Optical Drive	DVD RW factory installed.	
14	Expansion Slot	Minimum 3 slots including 2 PCI, 1 PCIex16	
15	Sound Card	Integrated with internal speaker	
16	Keyboard	USB Keyboard (same brand as system unit).	
17	Mouse	USB Mouse Optical (same brand as system unit) with mouse pad.	
18	Monitor	17" LCD Widescreen Color Monitor, same brand as system unit	
19	Casing	Tower Type	
20	Operating System	Preloaded Windows Vista Business with original license and Media	



21	Warranty	Three Years full warranty with parts and labor	
22	Others	Dust Cover and other features that comes standard with the system etc.	
23	Certification	ISO 9001:2000 and FCC Class B certificate.	
24	Brochures/ Literatures	Please attach relevant documents to claim the above specification.	

03. Mid Range Dot matrix Printer:

Mid Range Dot matrix Printer			Qty. 150 Pcs
Sl	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned by bidders	
02	Model	To be mentioned by bidders	
03	Country of Origin	To be mentioned by bidders	
04	Country of Assemble	To be mentioned by bidders	
05	Printer Type	Dot Matrix	
06	Print Speed	480 CPS at 10 CPI	
07	Print Head	24 pin	
08	Print DPI	360 x 360 dpi	
09	Buffer	Minimum 64KB	
10	Print Direction	Bi-Direction	
11	Connectivity	Parallel Port	
12	Paper Path	Top, Bottom, Rear & Front	
13	Warranty	1 (One) year warranty with parts and labour	
14	Accessories	Printer cable, Power cord, Ribbon, Driver S/W etc.	

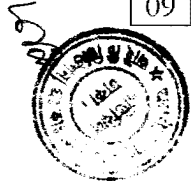


04. Small Dot matrix Printer:

Small Dot matrix Printer			Qty. 150 Pcs
SI	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned by bidders	
02	Model	To be mentioned by bidders	
03	Country of Origin	To be mentioned by bidders	
04	Country of Assemble	To be mentioned by bidders	
05	Printer Type	Dot Matrix	
06	Print Speed	300 CPS at 10 CPI	
07	Print Head	24 pin	
08	Buffer	Minimum 64KB	
09	Print Direction	Bi-Direction	
10	Connectivity	Parallel Port	
11	Paper Path	Tractor Feed (Continuous & Auto Cut Sheet)	
12	Warranty	1 (One) year warranty with parts and labor	
13	Accessories	Printer cable, Power cord, Ribbon, Driver S/W etc.	

05. Scanner:

Scanner			Qty. 150Pcs
SI	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned	
02	Model	To be mentioned	
03	Country of Origin	To be mentioned	
04	Resolution	Minimum 1200x2400 DPI	
05	Paper Size	A4	
06	Bit depth / Pixel	42 bit color	
07	Type	Flatbed	
08	Connectivity	USB	
09	Warranty	1(One) year Comprehensive	



06. Switch:

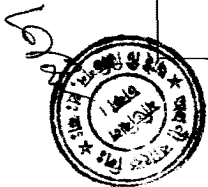
Switch (8 Ports)			Qty. 150Pcs
SI	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned	
02	Model	To be mentioned	
03	Speed	10/100 Mbps	
04	Port	8 (Eight)	
05	Warranty	1 (One) year with parts and labour.	

07. Anti Virus Software:

Anti virus Software			Qty. 150Pcs
SI	Item Description	Required Specification	Offered Specification
01	Anti virus Software	Renowned Antivirus software with anti-spyware and other potential threat protection. Corporate/Enterprise Edition for 600 Windows Server/Windows Workstation including 1 year perpetual virus definition download from internet.	

08. Local Area Network:

LAN			Qty. 150 Branches
SI	Item Description	Required Specification	Offered Specification
01	LAN connection for each branches	Installation of LAN with peripherals including CAT-6 Network Cable, RJ-45 connectors, PVC pipe/channel etc. and physical labor.	



09. Online UPS:

On-Line UPS (with built-in AVR) for Server			Total Qty. 150
Sl.	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned	
02	Model	To be mentioned	
03	Country of Origin	To be mentioned	
04	Capacity	2000 VA Minimum	
05	Type	Online (Manageable with Software)	
06	Frequency	50 Hz	
07	Input Range	170-270 Volt AC	
08	Output Range	220 ± 2%	
09	Transfer Time	0 (Zero) MS, Pure Sine Wave	
10	Protection	High & Low volt. protection, surge protection	
11	Backup time	Full-load 20 minutes	
12	Warranty	3(Three) years warranty with parts and labor, 01(One) for Battery	
13	Certification	ISO Certification Required (On the offered Brand)	

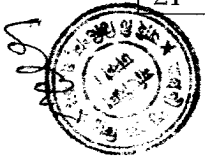
10. Off-line UPS:

Off-Line UPS (with built-in AVR): for Work Station			Total Qty. 600
Sl	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned	
02	Model	To be mentioned	
03	Country of Origin	To be mentioned	
04	Country of Assemble	To be mentioned	
05	Capacity	1 KVA	
06	Input Range	170-260 Volt AC	
07	Output Range	220 ± 10%	
08	Backup time	Full-load 15 minutes	
09	Warranty	3(Three) years warranty with parts and labor, 01(One) for Battery	
10	Certification	ISO/BUET Certification Required (On the offered Brand)	



11. Generator (Petrol):

Generator (3 KVA)			Total Qty - 150
SI	Item Description	Required Specification	Offered Specification
01	Generator Brand	Should be mentioned	
02	Generator Model	Should be mentioned	
03	Generator Type	Brushless, Revolving Field, Self-exciting, 2 Pole Single phase	
04	Country of Origin	Japan/Italy/France origin	
05	Country of Assemble	Should be mentioned	
06	AC Frequency	50 Hz.	
07	Standby Output	3 KVA	
08	Prime Output	Should be mentioned	
09	Rated Voltage	220 V	
10	Power Factor	100%	
11	Phase/Wire	Single Phase, 2 Wire	
12	Engine Model	Should be mentioned	
13	Engine Type	Air cooled, 4 Cycle, OHV, Gasoline Engine	
14	Starting System	Recoil Starter	
15	Fuel Tank Capacity	Minimum 20 Litre	
16	Fuel Consumption at Full Load/Hour	Should be mentioned	
17	Idle Switch	Must be available with Generator	
18	Continuous Operating hours at Full Load	Minimum 6 Hours	
19	Sound Level	Maximum 72 dB	
20	International Standard	ISO Certified	
21	Warranty	1 (One) Year with spare parts & services	

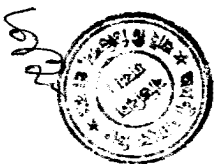


12. Air -Cooler:

Air -Cooler (2 Ton Ceiling suspended + 2 Ton Windows type)			Total Qty - 150
SI	Item Description	Required Specification	Offered Specification
01	Brand	Carrier/ Danhumbush/ Hitachi/ Toshiba/ General or equivalent.	
02	Model	Should be mentioned.	
03	Country of origin	USA/UK/Japan/France/Italy/Germany origin.	
04	Assembled	Malaysia/Thailand/Japan	
05	Power supply (V/Phase/Hz)	380-420/Three/50	
06	Power Consumption (KW)	Should be mentioned	
07	Starting current (A)	Should be mentioned	
08	Running current (A)	Should be mentioned	
09	Operating noise (dB)	Should be mentioned	
10	Refrigerant	R-22	
11	condensing	One number of condensing unit with one number of fan coil unit of 36000 BTU/Hr (3.0 ton) Capacity and One number of condensing unit with one number of fan coil unit of 60000 BTU/Hr (3.0 ton) capacity.	
12	Warranty/Guarantee	3(Three) years full warranty for compressor, spare parts and services.	

Please provide the costs of the following mandatory spares separately for three years after warranty. These costs will be added for the evaluation purpose ONLY.

1. Compressor
2. Condenser
3. Evaporator
4. Fan Motor
5. Fan Blower
6. PC board



(B) Detail Specification of Hardware required for 150 computerized-Branch Up-gradation and enhancement of automation/facilities of 52 Zonal Offices, 7 Circle Offices and 30 Head Office Divisions is furnished below :

HARDWARE SPECIFICATION:

1(a). SERVER:

Server (Minimum Requirements)			Qty. 150 pcs
Sl	Item Description	Required Spec	Offered Specification
01	Brand Name	International reputed brand	
02	Model	To be mentioned by the bidders.	
03	Country of Origin	To be mentioned by the bidders.	
04	Country of Assemble	To be mentioned by the bidders.	
05	Processor	Quad-Core Intel Xeon Minimum 2.33 GHz with support for two processors (Intel 5000 Series Chipset).	
06	L2 Cache	Minimum 8MB L2 Cache per processor.	
07	Front Side Bus	1333 MHz FSB	
08	RAM	4GB DDR2 SDRAM Min 667 MHz expandable to min 32 GB	
09	Hard Disk Drive	Min. 4 x 146 GB, 15K Hot Swappable/Pluggable SAS Hard Disk	
10	Chassis Form Factor	Tower	
11	Drive Controller	SAS Controller with 3 Gbps transfer rate	
12	RAID controller	Min. 256MB Battery Backed Cache with RAID Level 0,1,5 Support	
13	Optical Drive	Internal DVD RW factory installed.	
14	NIC	Integrated Dual Port Gigabit Ethernet	
15	Expansion Slot	Minimum 3 PCI Express and 3 PCI-X Expansion slots (Vendor should provide details)	
16	I/O Ports	2 x Ethernet, 1 x Serial, 4 USB v2.0, 1 Graphics Port	
17	Graphics	Integrated Server Graphics Controller with min 16 MB Memory	
18	Mouse	USB Optical Scroll Mouse with pad (Same Brand as System Unit)	
19	Keyboard	USB 104 Key US type Keyboard (Same Brand as System Unit)	
20	Bays	Minimum 8 drive/media bays including 6 hot plug hard drive Bays	
21	Power Supply	Dual Hot Plug Redundant (Mention the capacity)	
22	Cooling Fan	Redundant cooling fan.	
23	Monitor	17inch LCD Color Monitor (same brand as system unit)	
24	OS Certification	Microsoft® Windows® 2000 Server, Windows® Server 2003, Windows Server 2008 (when available). Red Hat Linux As-4	
25	System Management	Management Software for OS Installation and configuration tools & other	



	Server	utilities.	
26	Warranty	Three Years full warranty with parts and labor	
27	Certification	ISO 9001:2000 and FCC Class B certificate.	
28	Brochures/ Literatures	Please attach relevant documents to claim the above specification.	

1(b). OPERATING SOFTWARE:

Operating Software:			Qty. 150 Pcs
Sl	Item Description	Required Specification	Offered Specification
01	Operating Software	Windows 2003 Server (Std. Edition) or latest standard edition. Paper/ volume license in the name of Agrani Bank Limited License for 150 Server installation and 450 CAL.	

2. MICRO-COMPUTER:

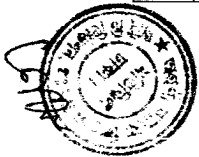
Micro-Computer			Qty. 450 Pcs
Sl	Item Description	Required Specification	Offered Specification
01	Brand	Internationally reputed brand.	
02	Model	To be mentioned by the bidders.	
03	Country Of Origin	To be mentioned by the Bidders	
04	Processor	Intel Core 2 Duo 2.40 GHz or higher,	
05	Chipset	Intel G3 1 Express or higher	
06	FSB Speed	1066 MHz or higher	
07	Cache memory	4MB or higher L2 Cache	
08	RAM	2 GB (2x1GB) Min. DDR2 667 MHz SDRAM expandable upto 4GB	
09	Hard Disk	160 GB SATA (7200 rpm) or higher.	
10	Graphics	Integrated Graphics	
11	NIC	Integrated 1 0/1 00/1 000 Mbps	
12	Port	1 VGA, 8 USB ports, 1 serial port, 1 parallel port, RJ-45 network port	
13	Optical Drive	DVD RW factory installed.	
14	Expansion Slot	Minimum 3 slots including 2 PCI, 1 PCIex16	
15	Sound Card	Integrated with internal speaker	
16	Keyboard	USB Keyboard (same brand as system unit).	
17	Mouse	USB Mouse Optical (same brand as system unit) with mouse pad.	
18	Monitor	17" LCD Widescreen Color Monitor, same brand as system unit	



19	Casing	Tower Type	
20	Operating System	Preloaded Windows Vista Business with original license and Media	
21	Warranty	Three Years full warranty with parts and labor	
22	Others	Dust Cover and other features that comes standard with the system etc.	
23	Certification	ISO 9001:2000 and FCC Class B certificate.	
24	Brochures/ Literatures	Please attach relevant documents to claim the above specification.	

3. Mid Range Dot matrix Printer:

Mid Range Dot matrix Printer			Qty. 202 Pcs
SI	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned by bidders	
02	Model	To be mentioned by bidders	
03	Country of Origin	To be mentioned by bidders	
04	Country of Assemble	To be mentioned by bidders	
05	Printer Type	Dot Matrix	
06	Print Speed	480 CPS at 10 CPI	
07	Print Head	24 pin	
08	Print DPI	360 x 360 dpi	
09	Buffer	Minimum 64KB	
10	Print Direction	Bi-Direction	
11	Connectivity	Parallel Port	
12	Paper Path	Top, Bottom, Rear & Front	
13	Warranty	1 (One) year warranty with parts and labour	
14	Accessories	Printer cable, Power cord, Ribbon, Driver S/W etc.	



4. Anti Virus Software

Anti virus Software			Qty. 150Pcs
Sl	Item Description	Required Specification	Offered Specification
01	Anti virus Software	Renowned Antivirus software with anti-spyware and other potential threat protection. Corporate/Enterprise Edition for 600 Windows Server/Windows Workstation including 1 year perpetual virus definition download from internet. .	

5. On-line UPS:

On-Line UPS (with built-in AVR) for Server			Total Qty. 150
Sl.	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned	
02	Model	To be mentioned	
03	Country of Origin	To be mentioned	
04	Capacity	2000 VA Minimum	
05	Type	Online (Manageable with Software)	
06	Frequency	50 Hz	
07	Input Range	170-270 Volt AC	
08	Output Range	220 ± 2%	
09	Transfer Time	0 (Zero) MS, Pure Sine Wave	
10	Protection	High & Low volt. protection, surge protection	
11	Backup time	Full-load 20 minutes	
12	Warranty	3(Three) years warranty with parts and labor, 01(One) for Battery	
13	Certification	ISO Certification Required (On the offered Brand)	



6. Off-line UPS:

Off-line UPS (with built-in AVR): for Work Station			Total Qty. 269
Sl	Item Description	Required Specification	Offered Specification
01	Brand	To be mentioned	
02	Model	To be mentioned	
03	Country of Origin	To be mentioned	
04	Country of Assemble	To be mentioned	
05	Capacity	1 KVA	
06	Input Range	170-260 Volt AC	
07	Output Range	220 ± 10%	
08	Backup time	Full-load 15 minutes	
09	Warranty	3(Three) years warranty with parts and labor, 01(One) for Battery	
10	Certification	ISO/BUET Certification Required(On the offered Brand)	



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