Lot #	Lot Name	Approved Budget
Lot 1	Computers & accessories	5,283,500.00
Lot 2	GPS	400,000.00
Lot 3	Mobile Tablets	365,000.00
Lot 4	Physics Equipment	200,000.00
Lot 5	Printer	180,000.00
Lot 6	Printer – Large Format	1,067,000.00
Lot 7	Printer – 3D	360,000.00
Lot 8	Presentation Equipment	1,435,000.00
Lot 9	Server	888,000.00
Lot 10	Architecture Laboratory	4,668,000.00
Lot 11	Communication Arts Laboratory	2,254,000.00
Lot 12	Econometrics Laboratory	1,440,000.00
Lot 13	Software – Citation Software	15,000.00
Lot 14	Software – Design	2,855,000.00
Lot 15	Software – Office Use	438,000.00
Lot 16	Software – Plagiarism Detection	100,000.00
Lot 17	Software – Data Analysis	340,000.00
Lot 18	Software – Video Editing	15,000.00
Lot 19	Software – Mathlab	50,000.00
Lot 20	Software – STATA	490,000.00
Lot 21	Software – SPSS	370,000.00
Lot 22	SOM IT Equipment & Peripherals	800,400.00
Lot 23	Laptop	2,993,000.00

TECHNICAL SPECIFICATIONS

ltem No.	DESCRIPTION	QUANTITY	Statement of Compliance
	LOT 1 – Computers and Accessories		
1	512 GB USB 3.0 Flash/Thumb drive or 512 GB SSD Portable Drive USB 3.0	2	
2	Audience clickers Set of 30	2	
3	Branded Desktop Computers Usage: Office productivity Processor: Intel i3 Processor Memory: at least 4GB Hard drive: at least 500GB HDD Screen size: approx. 21" Display: LED Resolution: FHD Audio: High definition Operating System: Windows 10 64bit Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0 Ports: Full Size HDMITM 1.4a (2) USB 3.0 (1) USB 2.0 (1) VGA Super multi-drive DVD, card reader Battery: 48 Whr Accessories: USB speakers, Mouse, keyboard, UPS	1	
4	Branded Desktop Computers Usage: Office productivity Processor: Intel i3 Processor Memory: at least 4GB Hard drive: at least 500GB HDD Screen size: approx. 21" Display: LED Resolution: FHD Audio: High definition Operating System: Windows 10 64bit Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0 Ports: Full Size HDMITM 1.4a (2) USB 3.0 (1) USB 2.0 (1) VGA Super multi-drive DVD, card reader Battery: 48 Whr Accessories: USB speakers, Mouse, keyboard, UPS	2	

5	Branded Desktop Computers Usage: Office productivity Processor: Intel i3 Processor Memory: at least 4GB Hard drive: at least 500GB HDD Screen size: approx. 21" Display: LED Resolution: FHD Audio: High definition Operating System: Windows 10 64bit Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0 Ports: Full Size HDMITM 1.4a (2) USB 3.0 (1) USB 2.0 (1) VGA Super multi-drive DVD, card reader Battery: 48 Whr Accessories: USB speakers, Mouse, keyboard, UPS	1	
6	Computer wifi package 1 unit - Wireless dual band gigabit router 10 unit - 300Mbps wireless-N wifi repeater 1 units – network attached storage	1	
7	Desktop computer set 22" display 3.5ghz, Intel Core i7 processor 1TB HDD hard drive 16GB 1600MHz RAM Optical drive: Ultra slim tray Super Multi DVD Burner Software inclusion: Microsoft Office Home and business 2016 edition & internet security/virus scanner OS: Windows 10	15	
8	Desktop computer set Display: 32" full HD Smart TV monitor compliant display Intel Core i7-4700 series or higher Intel HD graphics or with dedicated video card 4GB or better, 16GB DDR3-1600, 2xPCS 1TB HDD, built-in 7in1 memory card reader Optical drive: ultra slim tray Super multi DVD burner Software inclusion: Microsoft Office Home and Business 2016 edition & internet security/virus scanner OS: Windows 10	4	
9	Desktop Computers Intel Core i7 processor 8GB RAM 500GB HDD 21" Monitor	20	
10	Digital AV multiple adapter for Apple USB-C port to USB 3.0/2.0/1.1 and USB-C/Male to 3"USB3.0-A/Female+USB-C Power Delivery	2	
11	Digital AV Multiple adapter for Apple USB-C port to USB3.0/2.1/1.0 and All-in-One Desktop	9	

12	External Hard Drive 1TB with protective casing	8	
10		1	
13	External Hard Drive	4	
	4TB with protective casing		
14	External Hard Drive	5	
	4TB with protective casing (for storage server)		
15	IC Tester	3	
	24-pin or higher display		
	portable, light, usable with batteries		
	device supported by 74 serial, 40 serial, 75		
	serial and driver (ULN)		
	with display and power adaptor		
10	Power banks	4	
16	At least 50000mAH with protective casing		
47	· · · ·		
	Storage Server	1	
	UPS	9	
	At least 500 VA Single phase AVR		
19	Workstations	5	
	Intel Xeon processor		
	128GB RAM		
	2TB HDD		
	40" Montior		
	LOT 2 – GPS		
1	GPS	3	
	272x480 pixels display		
	touch screen		
	water resistant		
	with battery (16-22 hrs life) 200mAH		
	high speed USB and NMEA D183 compatible		
	5MP camera with autofocus and auto-		
	geotagging		
	electronic compass		
	3GB memory		
	Micro-SD slot		
	automatic routing		
	4000 waypoints		
2	GPS	2	
-	8 MP camera	-	
	Compatible with several mounts		
	Dual orientation		
	Wireless communication		
	Electronic compass		
	waterproof		
3	GPS	4	
	Handheld high sensitivity GPS device with 3-		
	axis compass, barometric altimeter, bluetooth,		
	sunlight-readable, 2.6" 160x240 color display,		
	4GB memory, dual battery system, waterproof		
	LOT 3 – Mobile Tablets		
1	Tablet	25	
	Octacore processor		
	3GB RAM		
	1500 0004		
	15GB ROM		
	10" Display		

2	Android Tablet GSM / HSPA / LTE	1	
	198.6 x 134.8 x 5.6 mm (7.82 x 5.31 x 0.22 in)		
	265 g (Wi-Fi) / 272 g (LTE) (9.59 oz)		
	Nano-SIM Super AMOLED capacitive touchscreen,		
	16M colors 8.0 inches (~74.0% screen-to-body ratio)		
	1536 x 2048 pixels (~320 ppi pixel density)		
	Multitouch Android OS, v6.0.1 (Marshmallow) - T719N Qualcomm MSM8976 Snapdragon 652 -		
	T719N Octa-core (4x1.8 GHz Cortex-A72 & 4x1.4 GHz Cortex-A53) - T719N		
	Adreno 510 - T719N		
	MicroSD, up to 256 GB (dedicated slot) 32/64 GB, 3 GB RAM		
	8 MP, autofocus primary camera 1440p@30fps		
	2.1 MP secondary camera		
	Vibration; MP3, WAV ringtones Can loud speaker		
	Has 3.5mm jack Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi		
	Direct, hotspot		
	V4.1, A2DP, LE With A-GPS, GLONASS		
	MicroUSB v2.0 (MHL TV-out) Fingerprint, accelerometer, gyro, proximity,		
	compass		
	SMS(threaded view), MMS, Email, Push Email, IM		
	HTML5 - ANT+ support		
	- MP4/H.264/WMV player		
	 - MP3/WAV/eAAC+/WMA/Flac player - Photo/video editor 		
	- Document editor Non-removable Li-Ion 4000 mAh battery		
	Up to 27 h (3G) battery		
	Up to 74 h music play White, black gold		
	, 5		
	IOS Tablet	4	
3	IOS Tablet 9.7 inches (~71.6% screen-to-body ratio)	1	
	iOS 7, upgradable to iOS 9.3.3, planned upgrade to iOS 10		
	Chipset: Apple A7		
	Dual-core 1.3 GHz Cyclone (ARM v8-based) 5 MP, f/2.4, 33mm		
	Wi-Fi 802.11 Non-removable Li-Po 8600 mAh battery (32.4		
	Wh)		
	64 GB, 1 GB RAM DDR3		
	Lot 4 – Physics Equipment		

	1		
1	Physics Equipment	1	
	3 sets Force Table		
	3 sets Motion Sensor		
	1 set Picket fence		
	4 sets 50N Force sensor		
	hanging masses		
	2 sets projectile launcher		
	friction block		
	3 sets force table		
	5 sets mass hangers		
	5 sets mass set with hook		
	3 sets vernier caliper		
	3 sets micrometer caliper		
	5 sets smart pulley 4 sets motion sensors		
	3 force table sets with 25 cm diameter table		
	with detachable legs and 3 adjustable super		
	pulleys with clamps and spool of thread		
	3 sets motion sensor with minimum range:		
	0.15 meters		
	maximum range: 8 meters		
	resolution: 1 mm		
	transducer rotation: 360 degrees		
	cable length: 1.8 meters		
	1 set picket fence with use for conducting free		
	fall experiments, the distance from the leading		
	edge of each black bar to the leading edge of the		
	next black bar is 5.0 cm		
	it has 8 black bars and is 40 cm long		
	4 sets 50N Force Sensor with force range: -50N		
	to +50N		
	resolution: 0.03N or 3.1grams		
	zero(Tare) function:Push-button		
	Force overload protection: mechanical stop		
	prevents forces of more than 50N from damaging		
	the sensor		
	Pin configuration: 8-pin DIN plug		
	Mounts on standard 12.7mm support rods		
	2 Projectile launcher (mini launcher) set with		
	range: 0.5, 1, 2m		
	launch angle: 0 t +90o and 0 to -45o		
	launcher length: 18cm		
	includes: launcher base, loading rod, 2-D		
	collision accessory, projectile balls, safety glasses,		
	and manual		
	1 set friction block with wooden friction block		
	has felt on two sides, so frictional coefficients for		
	felt or wood can be measured		
	dimensions: 13cm x 5cm x 1.7cm		
	approximate mass: 110g		
	3 sets vernier caliper with metric/English		
	calipers (18cm/6in.) and have an expanded		
	vernier scale of 20 divisions		
	3 sets micrometer caliper with measurements		
	from 0 to 25 mm with 0.1 mm resolution		
	5 sets smart pulley (super pulley) with low		
	friction: dual precision ball-bearings		
	lightweight: the sheave is only 5.5grams		
	precision dimensions: precision spacing of 10		
	spokes		
	4 sets mass and hanger set (hanging masses)		
	with features precision 5 gram mass hangers with		
	steel posts and each hanger can hold up to 50g		
	includes: four masses (5 g each) ±2%		

	Lot 5 – Printers		
1	Printer 24 pins 136 columns dot matrix printer Carbon copies: 5+1 orginal Printing resolution: 360x180dpi Interfaces: USB	1	
2	Multifunction Printer Wireless Continuous ink tank system With fast scanner	1	
3	Printer Colored Inkjet with continuous ink and replaceable cartridge	7	
4	Multifunction Colored Laser PrinterSpecificationsType: Colored Multifunction LaserPrinter/CopierFunctions: Print, copy, scanWith touch screen colored LCD panelResolution: (black and colored) 600 dpi qualityProcessor Speed: at least 800MHzCartridges: 1 black, 1 cyan, 1 magenta, 1 yellowPrint Speed (black/colored): Up to 19 pages perminuteInput capacity: 250 sheet universal cassetteInterface: USB, Fast EthernetMemory: 256MBWith installer/user guideWith additional set of cartridges (1 black, 1cyan, 1magenta, 1yellow)Compatible with Windows XP and higherversions	1	
	Lot 6 – Printer-Large Format		
1	Plotter – black and coloured 36-in (914-mm) printer specifications Memory, standard 1GB Power and operating requirements Input tray: A4, A3 Manual feed: A2, A1, A0 Operating temperature range: 5-40°C	2	
2	Large Format Printer Enhanced resolution: 9600 dpi Optical resolution: 1200 dpi Should be able to print 6ft width	1	
3	Printer, A3 Colour inkjet multifunction printer Functions: A3 print, A4 scan/copy/fax, PC fax, direct photo print, A4 2-sided print, wired/wireless networking	1	
	Wide Format Printer, Tabloid (11x17")	1	1

5	Multifunction Large Format Printer Enhanced resolution: 9600 dpi Optical resolution: 1200 dpi Scan speed 3 color: 15 cm/sec (6in/sec) Grayscale: 33 cm/sec (13 in/sc) Max scan size: 0.91 x 26 m (36 x 1024 in); 0.6 x 37.9 m (24 x 1491 in); 0.3 x 75.8 (12 x 2991 in) Max scan width: 1067 mm (42 in) supported file formats PDF, TIFF, JPEG, JPE Data capture: 48bit Color, 16bit mono	1	
	Lot 7 – Printer – 3D		
1	Printer 2+ 3D Size (LxWxH cm): 44x44x58 cm Layer resolution: max up to 20 microns or 0.02mm Connectivity: LCD display control SD card support USB printing direct	2	
	Lot 8 – Presentation Equipment		
1	Document Camera Usage: Laboratory / Live demo Resolution: Full HD Sensor: 1 / 2.7" CMOS Sensor Zoom: 12x optical Focus: Auto Image Freeze capable PC free usage Internal memory: 1GB With SD card Accessories: Power adapter Carrying case User guide	5	
2	Projector HD ready 720p 3D home cinema projector At least 3200lm VGA and HDMI connectivity with connectors Projector screen Ceiling mount brackets Includes installation at CHSS	10	
3	Interactive Pen Display Pen and Tablet 13:3HD Display (1920x1080) with wide viewing angle, pressure (2048 levels) and tilt sensitive pen with 3-position display stand and with 3in1 cable for PC and MAC, comfotable, compact, lightweight design	7	
4	Interactive White Board 79" Dual touch, 4x3 aspect ratio, multi touch interactive whiteboard, software included (for conference room)	1	
5	Projector Usage: outdoor At least 7000lm VGA and HDMI connectivity	3	

6	Projector Usage: Outdoor Resolution: WXGA, Full HD Brightness: 10000lm or higher Connectivity: HDMI, VGA Network: Wifi Accessories: Wifi dongle (if not built-in) Power adapter VGA Cable Remote control with battery Lens cap Carrying case User guide Tripod screen	1	
	Lot 9 – Server		
1	Server 1U Rack Server Intel Xeon E5-2620 v3 2.4Ghz Intel C610 15MB Cache 16GB DDR4-2133/PC4-17000 Serial ATA/600 6Gb/s SAS Controller 2TB SAS 6Gb/s 2 gigabit ethernet Memory card supported: microSD Max turbo speed: 3.20GHz Network (RJ45): yes 1 PCI express x16 slots 1 PCI express x8 slots 2 processors supported 2 expansion slots 24 total memory slots 5 USB 3.0 ports 8GT/s quickpath interconnect Remote management WEEE With VGA, USB2.0 and DVD-ROM	1	

2	Compan for Dooverant Management Court	1	
2	Server for Document Management System Rack Server Processor: Intel Xeon E5-2640 v3 2.6GHz, 20M Cache, 8.00GT/s QPI, Turbo, HT, 8C/16T (90W) Max Mem 1866MHz Memory / Max: 2 x 8GB RDIMM, 2400MT/s, Single Rank, x8 Data Width HD Capacity: 2 x 500GB 7.2K RPM NLSAS 6Gbps 2.5in Hot-plug Hard Drive, 3.5in HYB CARR (max 8 HDD) OpticalDVD+/-RW, SATA, Internal RAID: RAID 1 for H330/H730/H730 (2 HDDs or SSDs) RAID: PERC H730 Integrated RAID Controller, 1GB Cache Server Management: iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise Onboard NICsOn-Board LOM 1GBE (Dual Port for Towers, Quad Port for Racks) Power Supplies: Single, Hot-plug Power Supply (1+0), 750W Static Rail: ReadyRails Sliding Rails With Cable Management Arm Base Service: 3Yrs Basic Core NBD	1	
1	Branded Desktop Computer Operating System: Windows 10 Intel Core i7 6 th Gen 8GB DDR4 RAM 1TB HDD 72000 RPM 4GB video/graphics card Super multi-drive Integrated HD 5.1-channel surround sound WLAN 802.11b/g/n wireless LAN and Bluetooth 4.0 LE LAN Gigabit Ethernet F/S I/O Ports: D-Sub port(s), HDMI port(s), LAN port(s), Audio jack(s), USB 2.0 port(s) Accessories: Keyboard, mouse, speakers Software: MS Office Home and Business	30	
	2016		
2	2016 1500KVA UPS	30	
2		30	
	1500KVA UPS		

6	Projector Wireless At least 3200 lm Ceiling mounted Power-on and off through switch With VGA and HDMI connection	2	
7	Structured cabling For 30 computers Includes but not limited to: 2 units layer 2 manageable switch 1 unit 24 ports patch panel	1	
8	Setup and installation Computer table and chairs setup Computers and accessories setup Installation and activation of software Setup and installation of projector Other necessary networking and electrical wiring requirements	1	
	Warranty At least 1 year on hardware At least 2 years on computer table, network and electrical wiring		
	Lot 11 – Communication Arts		
	Laboratory		
1	Branded Desktop Computer 15 units All-in-one 21.5" 3.3GHz quad-core Intel i7 turbo boost up to 3.6GHz 8Gb onboard memory (configurable to 16GB) 1TB (54000 RPM) Hard drive Intel Iris Pro Graphics 6200 Display 4096x2304 resolution Operating System included Software: Microsoft Office Home and Business, Adobe Creative Suite 6 Master Collection (Photoshop CS6 Extended, Illustrator CS6, InDesign CS6, Acrobat X Pro, Flash Catalyst CS6, Flash professional CS6, Flash builder 4.5, Dreamweaver CS6, Fireworks CS6, Contribute CS6, Premier CS6) Accessories: keyboard, mouse	1	
2	Computer table		
	Warranty At least 1 year on hardware		
	Lot 12 – Econometrics		
	Laboratory		

1	Laptop Operating System: Windows 10 Processor: Intel Core i7 Memory: 8GB Storage: 1TB 3.5" 7200 RPM HD Graphics Super multidrive Integrated HD audio 5.1 channel surround sound Connectivity: WLAN 802.11b/g/n wireless LAN and Bluetooth 4.0 LE LAN Gigabit Ethernet F/S I/O Ports: D-Sub port(s), HDMI, LAN, Audio jack(s), USB Accessories: USB Keyboard, mouse, speakers 15" LED display Software: MS Office Home and Business 2016	15	
2	Computer table Fabricated, wooden finish With network and power provisions Inclusive of network and power cabling and installation	15	
3	Laptop Storage Cabinet Can store 15-20 15" laptop Has charging ports Fireproof	1	
4	Wireless router Dual-band gigabit router At least 3Gbps data transfer rate With 4-port ethernet switch	1	
5	Warranty and ServiceIncludes quarterly maintenance for 3 years24 hour replacement of defective unitsWarrantyAt least 1 year on hardware	1	
	Lot 13 – Software – Citation Soft-		
	Ware		
1	Bibliographical, Citation, and referencing	1	
	Lot 14 – Software – Design		
1	Adobe Creative Suite 5.5 Master Suite Master Collection Photoshop CS5 extended, Illustrator CS5, InDesign CS5.5, Acrobat X Pro, Flash Catalyst CS5.5, Flash Professional CS5.5, Flash Builder 4.5, Dreamweaver CS5.5, Fireworks CS5.5, Contribute CS5, Premiere Pro CS5.5, After Effects CS5.5, Audition CS5.5, OnLocation CS5.5, Encore CS5.5, Bridge CS5, Device Central CS5.5	2	
2	Adobe Creative Suite 6 Master Suite Master Collection Photoshop CS6 Extended, Illustrator CS6, InDesign CS6, Acrobat X Pro, Flash Catalyst CS6, Flash professional CS6, Flash builder 4.5, Dreamweaver CS6, Fireworks CS6, Contribute	1	
3	CS6, Premier CS6 Adobe Photoshop CS6	10	
3 4 5	CS6, Premier CS6	10 5 15	

6	Vray for Sketchup Software	15	
	Lot 15 – Software – Office Use		
1	Desktop Publishing Software	3	
2	Microsoft Project Standard 2016 64 bit (latest model)	15	
3	MS Office Professional	3	
	Lot 16 – Software – Plagiarism Detection		
1	Subscription Turnitin Online Plagiarism Detection / Originality Checking Software 5 years Instant formative feedback on faculty/student writing, online checking, online feedback and grading summative assessment of faculty/student writing	1	
	Lot 17 – Software – Data Analysis		
1	NVIVO 11 Qualitative Data Analysis Software for Social Sciences	2	
2	SPSS Quantitative Data Analysis Software for Social Sciences with training	3	
	Lot 18 – Software – Video Editing		
1	Video Editing Software	1	
	Lot 19 – Software – Mathlab		
1	Mathlab Software with optimization toolbox image processing toolbox statistics and machine learning toolbox global optimization toolbox	5	
	Lot 20 – Software – STATA		
1	STATA 14 IC-10 User student lab license for windows, perpetual license	1	
2	STATA 14 IC-5 User Academic License for Windows, perpetual license	1	

STATA 14 Detailed Specifications		
STATA 14 PDF Documentation Set		
(Includes the following PDF documentation)		
Getting Started with Stata for Windows		
Getting Started with Stata for Mac		
Getting Started with Stata for Unix		
User's Guide		
Base Reference Manual		
Data-Management Reference Manual		
Graphics Reference Manual		
Functions Reference Manual New		
Subject-specific statistics reference manuals:		
Bayesian Analysis New		
Item Response Theory New		
Longitudinal-Data/Panel-Data		
Multilevel Mixed-Effects		
Multiple-Imputation		
Multivariate Statistics		
Power and Sample-Size		
Structural Equation Modeling		
Survey Data		
Survival Analysis		
Time Series		
Treatment Effects		
Programming reference manuals:		
Programming		
Mata Matrix Programming		
Glossary and Index		
Technical Support		
To assist in the installation of the software and to		
deliver the items		
Lot 21 – Software – SPSS		

SPSS Statistics Base plus Regression and AMOS Authorized with User License, Perpetual	1	
FEATURES:		
Statistics Base - 1. Descriptive Statistics 2. Test to Predict Numerical Outcomes and Identify Groups		
a. Factor Analysis b. K-Means Cluster Analysis c.		
Hierarchical Cluster Analysis d. Two Steps Cluster		
Analysis e. Discriminant f. Linear Regression g.		
Ordinal Analysis h. Nearest Neighbor Analysis		
Regression - Multinomial Logistic Regression		
(MLR) 2. Binary Logistic Regression 3. Nonlinear		
Regression (NLR) and Constrained Nonlinear		
Regression (CNLR) 4. Weighted Least Squares		
(WLS) 5. Two-stage Least Squares (2SLS) 6. Probit Analysis		
AMOS- Psychology – Develop models to		
understand how drug, clinical, and art therapies		
affect mood		
 Medical and healthcare research – Confirm 		
which of three variables -confidence, savings, or		
research – best predicts a doctor's support for		
prescribing generic drugs Social sciences		
- Study how socioeconomic status, organizational		
membership, and other determinants influence		
differences in voting behavior and political		
engagement• Educational research – Evaluate		
training program outcomes to determine impact		
on classroom effectiveness• Market research –		
Model how customer behavior impacts new product sales or analyze customer satisfaction		
and brand loyalty• Institutional research – Study		
how work-related issues affect job satisfaction•		
Business planning – Create econometric and		
financial models and analyze factors affecting		
workplace job attainment		
 Program evaluation – Evaluate program 		
outcomes or behavioral models using SEM to		
replace		
traditional stepwise regression		
Provide a DVD-copy of the downloadable SPSS		
Installer		
With 12 month Software Subscription and		
Technical support on the following:		
Help with errors during installation• Help with failed installation; program will not run• On-site		
installation of customer's software • Provide		
guidance updating encryption codes• Provide		
details on recommended resource settings and		
how to set them. • Walk through update of		
encryption code, providing customer with step-by-		
step instructions over the phone. • In situations in		
which common troubleshooting techniques have		
been unsuccessful, "walk through" the installation		
procedure with the customer.		
Free installation and a 2days on-site training		
(includes one set of training handout, data files)		
Free upgrade for one year.		

	Lot 22 – SOM IT Equipment and		
	Peripherals		
1	Monitor 23" LED monitor aspect ratio - 16:9 contrast ratio static - 3000:1 resolution - 1920x1080 viewing angle (H/V) - 178°/178° OS Compatibility - Windows, Mac Accessories - HDMI & VGA cables for laptop	12	
	connection		
2	USB Keyboard		
3	USB Mouse with mouse pad		
4	UPS at least 500 VA		
5	Portable Hard drive 2 TB, USB 3.0 no external power needed no software install no configuration	4	
6	Branded Desktop Computer Operating System: Windows 10 Processor: Intel Core i7 Memory: 8GB Storage: 1TB 3.5-inch 72000RPM Graphics: HD Optical Drive: Super-Multi drive Audio: Integrated high-definition, 5.1-channel surround sound Connectivity: WLAN 802.11b/g/n wireless LAN and Bluetooth 4.0 LE LAN Gigabit ethernet F/S I/O Ports: D-Sub port(s), HDMI-port(s), LAN port(s), audio jack(s), USB2.0 port(s) Accessories: USB Keyboard, mouse and speakers Display: 22" LED Software: Microsoft Office Home and Business 2016	3	

7	UPS	3	
	1KVA Back UPS		
	Output Power Capacity: 600 Watts / 1000 VA		
	Nominal Output Voltage: 230V		
	Output Connections: (2) IEC 320 C13 (Surge		
	Protection), (6) IEC 320 C13 (Battery Backup)		
	Nominal Input Voltage: 230 V		
	Input Frequency: 47 - 63 Hz +/- 3 Hz		
	Battery Type: Maintenance-free sealed Lead-Acid		
	battery with suspended electrolyte : leakproof		
	(RBC32)		
	Typical Recharge / Backup time: 15 hour recharge		
	time, 16.6min half load 300w, 5.9min full load		
	600w		
	Control Panel: LED status display with On Line : On Battery : Replace Battery and Overload		
	indicators		
	Audible Alarm: Alarm when on battery : distinctive low battery alarm : overload		
	continuous tone alarm		
	Dataline Protection: USB Port / RJ-11		
	Modem/Fax/DSL protection (two wire single		
	line),RJ45 10/100 Base-T Ethernet protection		
	Surge Energy Rating: 180 Joules		
8	Smart TV	2	
	60" UHD Flat; can access Skype & Youtube, w/		
	wireless LAN Built-in		
	Resolution: 3840 x 2160		
	Ultra clear panel		
	HD Audio		
	Connectivity: HDMI, USB, Composite in, Digital		
	Out		
	Audio: Dolby Digital Plus		
	Accessory: mini wall mount support		
	With installation to SOM rooms		
9	LCD Projector	3	
	3LCD Technology		
	RGB liquid crystal shutter projection system		
	Native resolution: WXGA		
	Wireless LAN		
	Brightness: 3200lm		
	Throw ratio: 1.30-1.56 (wide-Tele)		
	Life (Normal/Eco): 5,000hrs/10,000hrs Screen Size: 33"-320"		
	Contrast ratio: 15,000:1 Connectivity: Composite, S-Vidio, HDMI, USB		
	Warranty: 3 years on parts; 1 year on lamp or		
	1000hrs whichever comes first		
	Lot 23 – Laptop		

1	Laptop	17	
	15.6" 19.9hd		
	Processor: Intel Core i7-5500U 2.4 ghz		
	processor (4M cache, up to 3.00ghz)		
	Operating System: Windows 10		
	Memory: 4GB DDR3L 1600MHz SDRAM		
	Storage: 1TB HDD		
	Optical Drive: Super-multi DVD		
	Card reader: 3in1 card reader (SD/SDHC/SDXC)		
	Software inclusion: Microsoft Office Home and		
	Business 2016 edition & Internet Security/Virus		
	Scanner		
	Scallier		
2	Laptop	5	
	Usage: Outdoor		
	Processor: Intel i5 Processor (5 th gen),		
	2.2GHz or better		
	Memory: at least 4GB		
	Hard drive: 1TB HDD + 16GB SSD		
	Screen size: approx. 14"		
	Display: LED, antiglare		
	Resolution: FHD		
	Video: Integrated HD Graphics 5500		
	Audio: High definition		
	Operating System: Windows 10 64bit		
	Bluetooth: Dual Band wireless-AC +		
	Bluetooth 4.0		
	Webcam: HD capable		
	Microphone: dual array		
	Ports: VGA, miniDP, USB, Integrated Smart		
	Reader, mic/headphone combo, RJ45, FPR, 14-in-1 card reader		
	Super multi-drive DVD, card reader		
	Battery: 3 cell front and 3 cell rear		
	Accessories: headset with microphone, laser		
	pointer/presenter		
	Ruggedness and durability tested against		
	high pressure, humidity, vibration, dust, etc		
	Other inclusions: MS Office Home and		
	Business 2016		
	Portable external DVD RW Drive		
3	Laptop	3	
0	15.6" LED antiglare FHD	-	
	Processor: Intel Core i5 processor (5 th gen),		
	2.2GHz or better		
	1TB HDD		
	Operating System: Windows 10		
	Memory: at least 4GB		
	Optical Drive: Super-multi DVD		
	Video: Integrated HD Graphics 5500		
	Audio: High definition		
	Bluetooth: Dual band wireless-AC + Bluetooth		
	4.0		
	Webcam: HD capable		
	Microphone: dual array		
	Ports: VGA, miniDP, USB, Integrated Smart		
	reader, mic/headphone combo, RJ45, FPR, 14-in-1		
	card reader		
	Battery: 3-cell front and 3 cell rear		
	Software inclusion: Microsoft Office Home and		
	Software inclusion: Microsoft Office Home and Business 2016 edition		

4	Laptop Usage: Office productivity Processor: Intel i3 Processor Memory: at least 4GB Hard drive: at least 500GB HDD Screen size: approx. 14" Display: LED Resolution: FHD Audio: High definition Operating System: Windows 10 64bit Integrated LAN: fast ethernet, WLAN+Bluetooth 4.0 Ports: Full Size HDMITM 1.4a (2) USB 3.0 (1) USB 2.0 (1) VGA Super multi-drive DVD, card reader Battery: 24 Whr Accessories: Mouse, other accessories	1	
5	Laptop 13.3-inch (diagonal) LED-backlit Retina display 3.1GHz dual-core Intel Core i7 processor Turbo Boost up to 3.4GHz Up to 10 hours battery life1 Up to 1TB SSD2 Force Touch trackpad 1.58 kg (3.48 pounds) Additional accessories: VGA Adpator for projector USB 3.0 to Ethernet Adaptor HDMI connector for projector USB Optical Mouse Headset	2	

Laptop Intel Core i7-6700HQ Quad Core 6M Cache, up to 3.5 GHz Hard Drive: 500 SSD RAM Included: 16 GB DDR4 SDRAM, 2133	3	
Mhz RAM Slots: 2 DIMM Slot(s) Release OS Version : Windows 10 Screen Size: 15.6 inch (Touch Screen) Pixel Density: 282 PPI Display Technology: IGZO Resolution: 3,840 x 2,160 Pixels Aspect Ratio: 16:9 Graphics Card: NVIDIA GeForce GTX 960M Audio Features: Waves MaxxAudio Pro Battery Type: Lithium Ion (Li-Ion) Battery Details: 6-Cell Lithium-Ion 84 Whr Measurements: 14.06 in. x 9.27 in. x 0.66 in. Wireless Connectivity: DW1830 3x3 802.11ac 2.4/5GHz + Bluetooth 4.1 A/C Adapter: 130W AC adapter Ports: 1 HDMI 2 USB 3.0 with PowerShare 1 Kensington Lock slot or Noble Lock 1 SD card reader (SD, SDHC, SDXC) 1 Headphone Output 1 Thunderbolt™ 3 Supports: Power In / Charging PowerShare Thunderbolt 3 (40Gbps Bi-Directional) 3.1 USB Gen 2 (10Gbps)+ VGA, HDMI, Ethernet and USB-A via Dell Adapter (Sold Separately) Exterior Chassis Materials: CNC machined aluminum Edge-to-edge Corning® Gorilla® Glass NBT™ on 4K Ultra HD display Carbon fiber composite palm rest with soft touch paint Keyboard: Full size, backlit chiclet keyboard; 1.3mm travel Memory Slots: 2 x SoDIMMs Touchpad: Precision touchpad, seamless glass integrated button Dimensions: Height: 0.45 – 0.66" (11-17mm) Width: 14.06" (357mm) Depth: 9.27" (235mm) Weight: 4.4 lbs (2kg)3 with 84Whr battery, SSD and touch display Additional accessories: HDMI to VGA Adpator USB 3.0 to Ethernet Adaptor 3 in 1 Mini Display Port Thuderbolt to DVI, HDMI & VGA Adaptor (VGA, HDMI, DVI & MiniDP) USB Optical Mouse		