

Technical Evaluation of I.T Equipment

Item No. 1 Network Server		ABM		Skif Enterprises	DataDistinct Solutions	DWP Technologies	HI-TEQ Automation	CMC	Ora-Tech Systems
Make		Dell		Supermicro	Dell	CISCO	Dell	HP	HP
Model		Power Edge T630	Power Edge R730	2028R-C1RT	Power Edge R730	UCSC-C220- M4L	PowerEdge R730	ProLiant DL360 G9	ProLiant DL380 G9
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Not mentioned	USA & China	USA & China, Malaysia, Holland etc	Not mentioned	Not mentioned	Not mentioned
Sr.#	Specifications/Technical parameters								
10	Mouse & Keyboard: Standard Keyboard and 2.0 USB 2-buttons Optical Mouse with Scroll	Not mentioned	Keyboard not mentioned, Dell ms111 USB Optical Mouse	Not mentioned	Yes	Yes	Yes	Yes	Yes
11	Chassis: Rack Server with 2x750W Redundant Power Supply and with upto 8 Hard Drives	Tower 2x750W	Rack 2x750W	Rack (2U) 2x920W	Rack (2U) 2x750W	Rack (1U) 2x770W	Rack (2U) 2x750W	Rack (1U) 2x800W	Rack (2U) dual supply not mentioned
12	ReadyRails™ Sliding Rails With Cable Management Arm	Not mentioned	Yes	Yes	Yes	Yes	Yes	Yes	Not mentioned
13	LCD: Colour LED 18.5"	Not mentioned	Not mentioned	Not mentioned	LED 18.5"	Dell 18.5"	18.5" LED Dell E1914H	18.5" LED HP V193	HP 18.5"
14	Other specifications and brands as approved by the Government	Yes	Yes	??	Yes	Yes	Yes	Yes	Yes
15	Warranty: 3 Years parts and labour warranty for all components on site	2 Years	2 Years	Not mentioned	Yes	Yes	Yes	Yes	Yes
16	OS: MS Windows Server 2012 R2 Datacenter Edition 64 bit (Licensed)	MS Server 2012 R2	MS Server 2012 R2	Yes	Yes	Yes	Yes, without CALs	Yes	Yes
17	Original DVD of motherboard drivers & Registered OS for each Server	Not mentioned	Not mentioned	Not mentioned	Yes	Not mentioned	Not mentioned	Not mentioned	Not mentioned
18	Installation of Server OS & Configuration Management Software and provide on site training for the efficient configuration and management of the Server	Not mentioned	Not mentioned	Not mentioned	Yes	Yes, one week training	Not mentioned	Not mentioned	Not mentioned

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Item No. 3 Laptop		Paradise Technologies	ABM	Skif Enterprises	DataDistinct Solutions	DWP Technologies	HI-TEQ Automation	Ora-Tech Systems
Make		LENOVO	HP	HP	Dell	LENOVO	HP	HP
Model		G50-80	15A- 137	Elite Book 840 G2	Latitude 3550	E50-80	Probook 450G2	ProBook 450 G3
Country of Origin & Manufacturing		US/Canada	Not mentioned	USA	USA & China	USA & Malaysia, China etc	Not mentioned	Not mentioned
Sr.#	Specifications/Technical parameters							
01	Processor: Intel® Core™ i5-5200U 2.2 GHz or higher	4th generation i5-4210U	Intel Core i5 2.2 GHz	i5-5300U (2.3GHz)	i5-5200U	i5-5200U	i5-5200U	i5-6200U upto 2.8GHz
02	Motherboard: Intel Original Laptop Board compatible with the quoted Processor	Yes	Yes	Yes	Yes	Yes	Yes	Yes
03	Memory: 8 GB DDR3 at 1600 MHz or higher	8GB DDR3L	8 GB	8 GB DDR3	8GB DDR3	8 GB	8GB DDR3L	8 GB
04	Hard Drive: 1 TB Hard Drive (7200 RPM) or higher	1000GB	1000 GB	1 TB	1 TB	1 TB	1 TB	1 TB
05	Optical Drive: Super Drive (DVD+/-RW)	DVD Super Multi	Super Drive	Super Multi DVD	External Options only	Optional DVD	DVD Writer	DVD+/-RW
06	Communication: Gigabit LAN Card	Yes	Yes	Yes	Yes	Yes	Yes	Yes
07	Video Card: Intel® HD Graphics	Intel HD	Not mentioned	Intel HD	Intel HD	Intel HD	Intel HD	Intel HD
08	Sound Card: Built in as per quoted Motherboard model	Yes	Yes	Yes	Yes	Yes	Yes	Yes
09	Input: Standard Keyboard, Multi-touch Touchpad	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	LCD Display: 15.6" HD	15.6" LED	15.6" Display	15.6" LCD	15.6" HD	15.6" HD	15.6" HD	15.6" HD
11	Operating System: Microsoft Windows 8.1 Professional 64 bit (Licensed) or newer	8.1 Pro	Windows 10	8.1 Pro	8.1 Pro	8.1 Pro	8.1 Pro	8.1 Pro
12	Others: Wireless LAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	Blue Tooth	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	Card Reader	Yes	Yes	Yes	Yes	Yes	Not mentioned	Yes
15	Carrying Case	Not mentioned	Yes	Yes	Yes	Yes	Yes	Yes
16	High quality speakers	HD Audio, stereo speakers	Not mentioned	Yes	Yes	Stereo Speakers	Not mentioned	Stereo Speakers
17	Standard Battery	4-Cell	Not mentioned	Standard Battery	4 Cell	4 Cell	4 Cell	Yes
18	Warranty: 03 Years with parts on site	Yes	2 Years	Yes	Yes	Yes	1 Year	Yes
19	Other specifications and brands as approved by the Government	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	One original DVD each of Registered Operating System & Motherboard Drivers will be provided with each Laptop	Not mentioned	Not mentioned	Yes	Yes	Not mentioned	Not mentioned	Not mentioned

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Item No. 4 Light Duty Laser/Dot Matrix Printer (Black & White)		ABM	Life Line Solutions	DWP Technologies	HI-TEQ Automation	CMC	Ora-Tech Systems
Sr.#	Specifications/Technical parameters						
a) Laser Printer:							
01	Make	HP	EPSON	HP	HP	HP	HP
02	Model	M401A	LQ350	LJ 2035 (CE461A)	M201n	Pro M201 dw	Pro M201 dw
03	Country of Origin & Manufacturing	Not mentioned	Not mentioned	USA & Malaysia, China etc	Not mentioned	Not mentioned	Not mentioned
04	Speed: 20 PPM or higher	33PPM	20PPM	30 PPM	25 PPM	26 PPM	26 PPM
05	RAM: 8 MB	Not mentioned	Not mentioned	16 MB	128 MB	128 MB	128 MB
06	Low ink indicator, Print cancel button	Yes	Not mentioned	Yes	Yes	Yes	Yes
07	DPI: 1200 x 1200 dpi or higher	1200x1200 Dpi	1200x1200 Dpi	600x600 dpi	600x600 dpi	1200x1200	1200x1200
08	Paper Size: Legal / A4	Yes	A4	Yes	Yes	Yes	Yes
09	Other standard features of the manufacturer	Yes	Yes	2 trays etc.	Yes	Duplexer, wifi etc.	Duplexer, wifi etc.
10	Government approved brands	Yes	Yes	Yes	Yes	Yes	Yes
11	Warranty	2 Years	1 Year	3 Years	1 Year	Not mentioned	3 Years
b) Dot Matrix Printer:				Not quoted			Not quoted
01	Make	Epson	EPSON	-	EPSON	EPSON	-
02	Model	LQ 350	LQ-2190	-	LQ 300+II	LQ-310	-
03	Country of Origin & Manufacturing	Not mentioned	Not mentioned	-	Not mentioned	Not mentioned	-
04	24 pins and 80 Columns or higher	24 Pin, 80 Col	24 Pin, 80 Col	-	24 Pin, 80 Col	24 Pin, 80 Col	-
05	Must handle upto Four Part Forms or more	Yes	Not mentioned	-	upto 4 parts forms	Yes	-
06	Print 200 Characters per second or higher	347/Sec	Not mentioned	-	200/Sec	347/416 CPS	-
07	Bottom or Rear Paper Feed	Yes	Not mentioned	-	Yes	Yes	-
08	Printing Resolution: 360x180 dpi or higher	360x180 dpi	Not mentioned	-	360x180 dpi	Not mentioned	-
09	Connectivity: USB Type	Yes	Yes	-	Yes	Yes	-
10	Compatible Operating System: Windows XP, 7, 8 & 10	7/8/xP	7/8/10	-	Latest	XP/7	-
11	Paper Size: A6 / A4 / Legal	Not mentioned	Not mentioned	-	Yes	Yes	-
12	Can print on low quality paper	Yes	Not mentioned	-	Yes	Yes	-
13	Other standard features of the manufacturer	Yes	Not mentioned	-	Yes	Yes	-
14	Government approved brands	Yes	Not mentioned	-	Yes	Yes	-
15	Warranty	2 Years	Not mentioned	-	1 Year	Not mentioned	-

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Item No. 5 Heavy Duty Laser Printer (Black & White)		ABM	DWP Technologies	HI-TEQ Automation	CMC	Ora-Tech Systems
Make		HP	HP	HP	HP	HP
Model		Enterprise M602dn (CE992A)	LaserJet Enterprise M605n (C6B69A)	806Dn LaserJet Printer	Enterprise M806dn	Enterprise M806dn
Country of Origin & Manufacturing		Not mentioned	USA & Malaysia, China etc	Not mentioned	Not mentioned	Not mentioned
Sr.#	Specifications/Technical parameters					
01	Print Speed: 55 PPM or higher	52/50 PPM	58/55 PPM	56 PPM	56 PPM	56 PPM
02	RAM: 64 MB	Std. 512 MB	Std. 512 MB	1 GB	1 GB	1 GB
03	Low ink indicator, Print cancel button	Yes	Yes	Yes	Yes	Yes
04	DPI: 1200 x 1200 dpi minimum	1200x1200 dpi	1200x1200 dpi	1200x1200 dpi	1200x1200 dpi	1200x1200 dpi
05	Paper Trays: Three	Multipurpose tray1, tray2: optional 500 sheets input tray, optional cassette	2 Trays, Tray3 Optional	Two 500 Sheets, One 100 Sheet Trays	Two 500 Sheets, One 100 Sheet Trays	Two 500 Sheets, One 100 Sheet Trays
06	Network ready	Yes	Yes	1 Gigabit	1 Gigabit	built-in Ethernet
07	Paper Size: Legal / A4 / A3	A4/Letter, A3 not supported	Legal / A4, A3 not supported	Yes	Yes	Yes
08	Automatic two-sided printing (Duplexer Card)	Yes	No	Yes	Yes	Yes
09	LCD Display of the print status	Yes	4 Line LCD with Keypad	Yes	Yes	Yes
10	Other standard features of the manufacturer	Yes	Yes	Yes	Yes	Yes
11	Government approved brands	Yes	Yes	Yes	Yes	Yes
12	Warranty	2 Years	3 Years Std. warranty	1 Year	Not mentioned	3 Years

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Item No. 6 Color Laser Printer		ABM	DWP Technologies	HI-TEQ Automation	CMC	Ora-Tech Systems
Make		HP	HP	HP	HP	HP
Model		Color Laser M251nw	LaserJet Pro 400 M451dn (CE957A)	Color Laser M252DW	Color Laser Pro M252dw	Color Laser Pro M252dw
Country of Origin & Manufacturing		Not mentioned	USA & Malaysia, China etc	Not mentioned	Not mentioned	Not mentioned
Sr.#	Specifications/Technical parameters					
01	Print Speed: 16 PPM Color or higher	14PPM	21 PPM	18 PPM	18 PPM	18 PPM
02	RAM: 64 MB RAM	128 MB	Std. 128 MB	256 MB	256 MB	256 MB
03	Low ink indicator, Print cancel button	Yes	Yes	Yes	Yes	Yes
04	DPI: 600 x 600 dpi or higher	600x600 dpi	600x600 dpi	600x600 dpi	600x600 dpi	600x600 dpi
05	Network ready	Yes	Yes	Fast Ethernet	Fast Ethernet	Fast Ethernet
06	Paper Size: Legal / A4	Legal / A4	Legal / A4	Legal / A4	Legal / A4	Legal / A4
07	Automatic two-sided printing (Duplexer Card)	No, Manual	Yes	Yes	Yes	Yes
08	LCD Display of the print status	3.5" LCD	2 Line LCD	Yes	Yes	Yes
09	Other standard features of the manufacturer	Yes, wireless capability etc.	Yes	Yes, wireless capability etc.	Yes, wireless capability etc.	Yes, wireless capability etc.
10	Government approved brands	Yes	Yes	Yes	Yes	Yes
11	Warranty	2 Years	3 Years Std. warranty	Not mentioned	Not mentioned	3 Years

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Item No. 7 Legal Size Scanner		ABM	DWP Technologies	CMC	Ora-Tech Systems
Make		HP	HP	HP	HP
Model		G2410	ScanJet N6310 (L2700A)	ScanJet 5590	ScanJet Pro 3500 F1
Country of Origin & Manufacturing		Not mentioned	USA & Malaysia, China etc	Not mentioned	Not mentioned
Sr.#	Specifications/Technical parameters				
01	Interface: 2.0 USB compliant	Not mentioned	Hi-Speed USB 2.0	Hi-Speed USB 2.0	USB 3.0
02	Scan Resolution: Minimum 2400 x 2400 dpi or higher	1200x1200	2400x2400	2400x2400	2400x2400
03	Flat Bed	Yes	Yes	Yes	Yes
04	Scan Size: A4 / Legal Size	A4 / Legal	A4 / Legal	Legal / A4	Legal / A4
05	Minimum 12 ppm automatic document feeder (ADF)	Not mentioned	Yes, 15ppm	Yes, 8ppm	Yes, 25ppm
06	Other standard features of the manufacturer	Yes	Yes	Yes	Yes
07	Government approved brands	Yes	Yes	Yes	Yes
08	Warranty	2 Years	3 Years Std. warranty	Not mentioned	3 Years

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Item No. 8 Central UPS for Server / Network Room		Paradise Technologies	ABM	MAKKAYS	Life Line Solutions	DWP Technologies	HI-TEQ Automation	CMC
Make		ALFA DIGITAL	APC	i-Power	Tlinks Levon	APC	INVT	Jeidar
Model		9303 L	SUA 5000xli	900-084	Not mentioned	SRT5KXLI Battery Pack SRT192BP	HT1106	BH Series
Country of Origin & Manufacturing		Taiwan	Not mentioned	UK	Not mentioned	USA & Dubai, Malaysia etc.	Not mentioned	Not mentioned
Sr.#	Specifications/Technical parameters							
01	Capacity: 5 KVA with dry batteries	3KVA/2100W	5 KVA	6KVA/4.8KW	6KVA	5000VA / 4500W	6000VA / 5400 W	6KVA/4.8KW
02	High Performance Single Phase in / Single Phase out	Yes	Yes	Yes	Yes	Yes	Yes	Yes
03	Surge protection	Yes	Yes	Yes	Not mentioned	Yes	Yes	Yes
04	Processor control	Yes	Yes	Yes	Not mentioned	Yes	Yes	Yes
05	Online Double Conversion Technology	Yes	Yes	Yes	Yes	Yes	Yes	Yes
06	Wide input voltage range due to Built-in AVR	Built-in AVR	Not mentioned	Built-in AVR	Built-in AVR	Not mentioned	40-70 Hz	175-280VAC
07	Pure Sine Wave Output with no distortion in waveform	True Sine Wawe	Not mentioned	Yes	Yes	Yes	Yes	Yes
08	UPS monitoring software with Serial/USB port	Yes	Not mentioned	Yes	Yes	Yes	Yes	Yes
09	Plug and Play with other standard features	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	Backup tiime: At least 30 minutes or higher	30 Min Backup	Not mentioned	30 Min Backup	30-mins Plus on 70% Load	46.2 with half load, 20.5 with full load	30 Mint with 80% load	30 Mint on 3200 watts
11	Recharge Time: 2-4 hours	5Hrs to 90%	Not mentioned	Not mentioned	Not mentioned	Not mentioned	Not mentioned	Not mentioned
12	Complete accessories including power cables	Yes	Yes	Yes	Not mentioned	Yes	Yes	Yes
13	Government approved brands	??	Yes	??	??	Yes	??	??
14	Warranty	1 Year	2 Years	2 Years UPS & 6 months batteries	1 Year	3 Years for electronics & 2 years for batteries	1 Year Std. manufacturer warranty	Not mentioned

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Item No. 9 Uninterruptible Power Supply (UPS)		Paradise Technologies		ABM	MAKKAY'S	DWP Technologies	HI-TEQ Automation		U & M Tech	CMC
Make		ALFA DIGITAL		Expert/ALFA	i-Power	APC	INVT	INVT	APC	Jeidar
Model		5310 A	6065A		902-010	SMT750I	HT1101S	BU800	650 Cs	SB-C Series
Country of Origin & Manufacturing		Taiwan	Taiwan	Not mentioned	UK	USA & Dubai, Malaysia etc.	Not mentioned	Not mentioned	USA	Not mentioned
Sr.#	Specifications/Technical parameters									
01	Capacity: 800VA with dry batteries (For single PCs/Switches)	1KVA/500W	650VA/385W	Yes	800VA/480W	750VA/500W	1000VA/900W	800VA/480W	650va/400W Refurbished	1000va/600w
02	High Performance Single Phase in / Single Phase out	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
03	Surge protection	Yes	Yes	Yes	Not mentioned	Not mentioned	Yes	Yes	Yes	Yes
04	Processor control	Yes	Yes	Yes	Yes	Not mentioned	Yes	Yes	Not mentioned	Yes
05	Line Interactive/Online Double Conversion Technology	Yes	Yes	Yes	Yes	Not mentioned	Yes	Yes	Not mentioned	Yes
06	Built-in AVR for Wide Input Voltage Range	Yes	Yes	Yes	Yes	Not mentioned	40-70 Hz	50Hz	47-63Hz	160-287Vac
07	Backup Time: At least 10 minutes or higher	20 Min Backup	20 Min Backup	At least 10 Min	Std. backup	5 on 500W/ 22 on 200W	10 Mint at 80% load	Max ≤ 10 Mint	5-10 min on full load	5-15 Mins
08	Recharge Time: 2-4 hours	5Hrs to 90%	5Hrs to 90%	Not mentioned	Not mentioned	Not mentioned	Not mentioned	4-6 Hrs	Not mentioned	4 Hrs to 80%
09	Pure Sine Wave	Yes	Yes	Not mentioned	Yes	Yes	Yes	Not mentioned	Sine Wave	Not mentioned
10	Serial/USB port	Yes	Yes	Yes	Yes	Yes	Yes	Not mentioned	Not mentioned	Yes
11	Plug and Play	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	UPS monitoring software	Yes	Yes	Yes	Not mentioned	Yes	Yes	Not mentioned	Not mentioned	Yes
13	Other standard features	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	Complete accessories including cables	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	Government approved brands	??	??	??	??	Yes	??	??	Yes	??
16	Warranty	1 Year	1 Year	2 Years	2 Years	3 years for electronics & 2 years for batteries	1 Year Std. manufacturer warranty	1 Year Std. manufacturer warranty	1 Year complete warranty	Not mentioned

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Item No. 10 Flash Memory		ABM	DWP Technologies
Make		Kingston/HP	Kingston
Model		-	-
Country of Origin & Manufacturing		-	-
Sr.#	Specifications/Technical parameters		
01	Capacity: 32 GB or higher Flash Card with PCMCIA or USB Holder card	32 GB	32 GB
02	Data Transfer Rate: 10MB per second or higher	Not mentioned	Not mentioned
03	USB 3.0 compliant & backwards compatible with USB 2.0	Not mentioned	Not mentioned
04	Warranty	2 Years	Lifetime

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Item No. 11 Multimedia Projector		ABM	DataDistinct Solutions	DWP Technologies	HI-TEQ Automation
Make		Sony	NEC	Benq	Optoma
Model		VPL-DX147	V311x	BEMX525	X351
Country of Origin & Manufacturing		Not mentioned	Japan	Malaysia	??
Sr.#	Specifications/Technical parameters				
01	Lens: 3100 Lumens or higher	3200	3100	3200	3600
02	Colors: 16.7M	Not mentioned	Yes	1.07 Billion	1073.4 Million
03	Resolution: 1024x768 or higher	1024x768	1024x768	1024x768	1024x768
04	Lamp: 150 W 5000 hours or higher	Std. 5000 Hrs	5000 Hrs	10000 Hrs	6500 Hrs
05	Dual RGB	Yes	Yes	Yes	Yes
06	S-Video	Mini D-Sub 15 Pin	Yes	Mini DIN 4-Pin	Yes
07	LAN Port	Yes	Yes	NO	Yes
08	PC Audio ports	Yes	Yes	Audio in & out (Mini Jack)	2 Audio input, 1 output
09	Aspect Ratio: 4:3 native, 16:9 capable	Not mentioned	Yes	Native 4:3	4:3 Native, 16:9 Compatible
10	Contrast Ratio: upto 3000:1 or higher	3000:1	3000:1	13000:1	20000:1
11	Roof mount with larger VGA cable to connect with PC alongwith its installation	Not mentioned	Yes	Not mentioned	Ceiling kit with VGA & Power Cable Set
12	Government approved brands	Yes	Yes	Yes	??
13	Other standard features	Yes	Yes	Yes	Yes
	Multimedia Projection Screen	Not quoted		Not quoted	
14	Screen Color: White	Not mentioned	Yes		White
15	Screen Size: 10 x 8 feet or more as per site requirement	Not mentioned	Yes		10x8
16	Wall mount	Not mentioned	Yes		Yes
17	Automatic adjustable leveling screen (electrical motor) with remote control alongwith its installation	Not mentioned	Yes		Yes
18	Warranty	2 Years	1 Year except lamp. Lamp warranty is 1 year or 10,000 hours whichever comes first.	3 Years warranty	1 Year Std. manufacturer warranty

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Item No. 12 Overhead Projector		ABM	DataDistinct Solutions	DWP Technologies
Make		Sony	NEC	Apolo
Model		VPL-DX147	V311x	JL-3
Country of Origin & Manufacturing		Not mentioned	Japan	USA
Sr.#	Specifications/Technical parameters			
01	Lens: 3000 Lumens or higher	3200	3100	3200
02	Colors: 16.7M	Not mentioned	Yes	not mentioned
03	Resolution: 1024x768	1024x768	1024x768	not mentioned
04	Lamp: 150 W 3000 hours or higher	Std. 5000 Hrs	5000 Hrs	not mentioned
05	Dual RGB	Yes	Yes	not mentioned
06	S-Video	Mini D-Sub 15 Pin	Yes	not mentioned
07	PC Audio ports	Yes	Yes	not mentioned
08	Aspect Ratio: 4:3 native, 16:9 capable	Not mentioned	Yes	not mentioned
09	Contrast Ratio: upto 3000:1	3000:1	3000:1	not mentioned
10	Other standard features	Yes	Yes	not mentioned
11	Government approved brands	Yes	Yes	
12	Additonal:			Screen 8x6 wall mount-electric motor with remote
13	Warranty	2 Years	1 Year except lamp. Lamp warranty is 1 year or 10,000 hours whichever comes first.	

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Item No. 14 4 in 1 Multifunction Machine		HI-TEQ Automation
Make		HP
Model		MFP 225DN
Country of Origin & Manufacturing		??
Sr.#	Specifications/Technical parameters	
01	4 in 1 machine with Printer, Scanner, Fax and Copier	Yes
02	Speed: 16 PPM or higher	25 PPM
03	DPI: 1200x1200 or higher	1200x1200 dpi
04	Low ink indicator, Print Cancele Button	Yes
05	Paper Size: A4 / Legal	A4 / Legal
06	Scanner ADF	Yes
07	Other standard features	Yes
08	Government approved brands	Yes
09	Warranty	Not mentioned

Sheikh Zayed Medical College/Hospital, Rahim Yar Khan
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Item No. 15 DVDs / CDs		DWP Technologies
Make		Maxell
Model		DVD-RW
Country of Origin & Manufacturing		Malaysia
Sr.#	Specifications/Technical parameters	
01	Writeable with Best quality	Yes with cover

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Item No. 16 Photocopier Machine		ABM	HI-TEQ Automation	U & M Tech
Make		Nashuatec	Konica Minolta	Ricoh
Model		MP3054 SP	Bizhub 363	MP 4000 Refurbished
Country of Origin & Manufacturing		Not mentioned	??	USA
Sr.#	Specifications/Technical parameters			
01	Copy Speed: 30 CPM or higher	30CPM	36 PPM	Not mentioned
02	Resolution: 600x600 dpi (scanning) & 2400x600 dpi (printing)	1200x1200 dpi	600x600 dpi	Not mentioned
03	Zoom: 25 to 400%	25-400%	25-400%	Not mentioned
04	Paper Capacity: 500 sheets or more	Std. 1150	Two 500 sheet universal trays	Not mentioned
05	Bypass Capacity: 100 sheets	Not mentioned	150	Not mentioned
06	Paper Size Drawers & Bypass: A3 - A5R	A3 - B6	A3 - A5R	Not mentioned
07	First Copy Time: 4.7 seconds or less	4.6 sec	3.6 sec	Not mentioned
08	Main Memory: 2 GB	2 GB	2 GB	Not mentioned
09	Hard Disk: 160 GB or higher	320 GB	250 GB	Not mentioned
10	Auto Document Feeder (ADF)	Yes	Yes	Not mentioned
11	Automatic Duplex Built-in	Not mentioned	Yes	Not mentioned
12	Interface: Ethernet (10/100/1000 Base-T)	Yes	Yes	Not mentioned
13	USB2.0/High Speed USB	Yes	Yes	Not mentioned
14	Drivers: Windows 7/8/10, Windows Server 2008/2012 R2	Windows XP/Vista/7/8, Server 08/12	Windows XP/Vista/7, Server 2008	Not mentioned
15	Other Standard features of the manufacture	Yes	Yes	Not mentioned
16	Government approved brands	??	Yes	Not mentioned
17	Warranty	2 Years	1 Year Std. manufacturer warranty	Not mentioned

Sheikh Zayed Medical College/Hospital, Rahim Yar Khan
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Item No. 17 Video Camera		Life Line Solutions
Make		Sony
Model		HXR-MC2500
Country of Origin & Manufacturing		USA, Japan, Korea
Sr.#	Specifications/Technical parameters	
01	Full HD	Full HD
02	Effective Picture Elements: Approx. 6140K pixels(16:9) / Approx. 4600K pixels(4:3) or higher	Yes
03	Minimum Illumination: 1.4lux (MAN setting : SS 1/25sec , Iris F1.8 , Gain 33dB) [PAL] 1.6lux (MAN setting : SS 1/30sec , Iris F1.8 , Gain 33dB) [NTSC]	Yes
04	Shutter Speed: 1/6 - 1/10,000 [PAL] 1/8 - 1/10,000 (1/6 - 1/10,000 when shooting with 24p) [NTSC]	Yes
05	Imaging Device (Type): 1/3.95 inch (4.6mm) back-illuminated Exmor R CMOS Sensor	Yes
06	Imaging Device (Pixel Count): Approx. 6590K pixels or higher	6590K pixels
07	Recording Frame Rate (PAL) - HD: PS (28Mbps) 1920 x 1080/50P, 16:9	Yes
08	Focal Length: f = 2.9-34.8mm, equivalent to f=26.8-321.6mm on 35 mm lens(16:9), equivalent to f=32.8-393.6mm on 35 mm lens(4:3)	Yes
09	Zoom ratio: 12x (optical), Servo/Manual, Iris: F1.8 - F3.4 auto/manual selectable	Yes
10	Omni-directional stereo electret condenser microphone	Yes
11	Battery Operating Time (Continuous Recording Time): Approx. 125-300 min	Approx. 125-300 min
12	Battery	Yes
13	AC adapter	Yes
14	High Quality picture/video in low light	Yes
15	Built-in LED Light	Yes
16	Internal Memory: 32GB or higher	32GB
17	Simultaneous recording	Yes

Item No. 17 Video Camera		Life Line Solutions
18	Other standard features like Touch LCD Screen, Night Shot and accessories of the manufacturer	Touch LCD Screen
19	Government approved brands	Yes
	Tripod:	
20	60mm leveling ball	Yes
21	Bubble level non illuminated	Yes
22	Counter balance with built in spring for better camera balance	Yes
23	Supports upto 6.5 lb	6.5 lb
24	Aluminium construction	Yes
25	Sliding quick release plate	Yes
26	Height: 1400mm tilt angle	Yes
	Illuminator:	
27	Video LED light having minimum 300 LEDs with accessories battery and charger etc.	Yes
28	Product warranty: 1 Year with services at site	Yes

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Item No. 18 Digital Camera		ABM
Make		Sony
Model		Not mentioned
Country of Origin & Manufacturing		Not mentioned
Sr.#	Specifications/Technical parameters	
01	Camera: 16 Megapixels or higher	16 Megapixel
02	Optical Zoom: 8x or higher	Not mentioned
03	Internal storage capability: 8GB or higher	8 Gb
04	External Memory Card Option	Yes
05	Dual record of stills and movies	Yes
06	Windows OS compatibility	Not mentioned
07	Battery	Not mentioned
08	AC Adapter	Not mentioned
09	USB cable to connect with Computer	Not mentioned
10	Other standard features of the manufacturer	Yes
11	Government approved brands	Yes
12	Warranty	2 Years

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Passive Equipment for LAN Item No. 1: UTP Cable		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Schneider	Molex	D-Link	Schneider Electric	Vivanco	D Link/ Schneider/ Optronics
Model				NCB-C6UGRYR-305-24			
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	Germany & China etc.	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Category: Cat-6	Yes	Cate 6	Yes	Cat-6	Cat 6	Cat 6
02	23 AWG	23 AWG	23 AWG	23 AWG	23 AWG	23 AWG	23 AWG
03	4Pair Cable Roll	Yes	Yes	Yes	Yes	305 Meter/Roll	Yes
04	Pure Copper	Yes	Yes	Yes	Yes	Yes	Yes
05	Quality: Best	Yes	Yes	Yes	Yes	Yes	Yes

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<u>Passive Equipment for LAN</u> Item No. 2: STP Cable		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Bay Net	Molex	D-Link	Schneider Electric	Vivanco	D Link/ Schneider/ Optronics
Model				NCB-C6SGRYR-305-24			
Country of Origin & Manufacturing		Not Mentioned	Not Mentioned	Taiwan	Not mentioned	Germany & China etc.	Not Mentioned
Sr.#	Specifications/Technical parameters						
01	Category: Cat-6	Cat 6 FTP Cable	Cat-6 SFTP Cable	Yes	Yes	Yes	Yes
02	Pure Copper	Not mentioned	Not mentioned	Yes	Yes	Yes	Yes
03	Quality: Best	Not mentioned	Not mentioned	Yes	Yes	Yes	Yes

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<u>Passive Equipment for LAN</u>		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Item No. 3: Face Plate with dual insert with single I/O and back box							
Make		Not mentioned	Molex	D-Link	Schneider	Vivanco	D Link
Model				INFP-0WH121			
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	Germany & China etc.	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Dual Insert	Dual Insert	Dual Gang	Dual insert	Dual insert	Dual Shutter	Dual Shutter
02	Single I/O	Yes	Yes	Yes	Yes	Yes	Yes
03	Back Box	Yes	Yes	Yes	Yes	Yes	Yes
04	Category: Cat-6	Yes	Yes	Yes	Yes	Yes	Yes

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Passive Equipment for LAN Item No. 4: Patch Panel		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Bay Net	Molex	D-Link	Schneider Electric	Vivanco	D Link
Model				NPP-C61BLK241			
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	Germany & China etc.	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Category: Cat-6	Yes	Yes	Yes	Yes	Yes	Yes
02	Ports: 24 ports With Cat 6 Loaded I/O	Yes	Yes	Yes	Yes	Yes	Yes
03	Quality: Best	Yes	Yes	Yes	Yes	Yes	Yes

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<u>Passive Equipment for LAN</u> Item No. 5: Patch Cord		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Bay Net	Molex	D-Link	Schneider Electric	Vivanco	D Link
Model				NCB-C6UGRYRI-3			
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	Germany & China etc.	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Length: 3 meter	Yes	Yes	3 Meter	3 meter	3 Meter	3 Meter
02	Category: Cat-6	Yes	Yes	Cat-6	Cat-6	Cat 6	Cat 6
03	Quality: Best	Yes	Yes	Yes	Yes	Yes	Yes

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Passive Equipment for LAN Item No. 6: Patch Cord		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Bay Net	Molex	D-Link	Schneider Electric	Vivanco	D Link
Model				INFP-0WHI21			
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	Germany & China etc.	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Length: 1 meter	Yes	Yes	Yes	Yes	Yes	Yes
02	Category: Cat-6	Cat-6	Cat-6	Cat-6	Cat-6	Cat 6	Cat 6
03	Quality: Best	Yes	Yes	Yes	Yes	Yes	Yes

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Passive Equipment for LAN						
Item No. 7: Labour Work + Channel/Ducting		ABM	DataDistinct Solutions	Life line Solutions	DWP Technologies	HI-TEQ Automation
Make						
Model						
Country of Origin & Manufacturing						
Sr.#	Specifications/Technical parameters					
01	UTP/STP Cable laying, testing and termination alongwith providing & installation of Channels/Ducts of different sizes as per requirement at site	Yes	Yes	Yes, with Adamjee Ducts	Yes	Yes

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Passive Equipment for LAN Item No. 8: Data Cabinet / Rack		ABM	Skif Enterprises	DataDistinct Solutions	Life line Solutions	DWP Technologies	HI-TEQ Automation
Make			Orient	TOTAN	Local Brand		
Model							
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Local	Local Made	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Size: 2U & 4U	2U & 4U	2U & 4U	2U & 4U	2U & 4U	4U	2U & 4U
02	Self Supported with Power supply and cooling fan	Yes	Yes	Yes	Yes	Yes	Yes

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Passive Equipment for LAN Item No. 9: Wireless Access Point		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Cisco	Ruckus	D-Link	EnGenius	CISCO	D-Link
Model		WAP 131	R-500	DAP-2660	WS360AP	WAP371-E-K9	DLDAP-2360
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	USA & China, Malaysia, Holland etc.	??
Sr.#	Specifications/Technical parameters						
01	Data Link Protocol: IEEE 802.11a/b/g/n/ac or latest	Not mentioned	802.11ac	802.11ac	802.11ac	802.11ac	802.11ac
02	PoE support	Not mentioned	Not mentioned	Yes	Yes	Yes	Yes
03	Data Transfer Rate: 300 Mbps or higher	Not mentioned	13.5-400Mbps (40MHz) 29.3-867Mbps (80MHz)	upto 1200Mbps	Upto 450 Mbps (2.4 GHz) upto 1300 Mbps (5GHZ)	upto 950 Mbps	300 Mbps
04	Wi-fi protected security (WPA, WPA2)	Not mentioned	Yes	Yes	Not mentioned	Yes	Yes
05	Government approved brands	??	??	Yes	??	Yes	Yes
06	Good signal strength at maximum distance	Yes	Yes	Yes	Yes	Yes	Yes
07	Easily manageable through computer access	Not mentioned	Yes	Yes	Not mentioned	Yes	Yes
08	Optional: Gigabit LAN ports			Yes with PoE support			
09	Warranty	2 Years	Not mentioned	2 Years original warranty	Not mentioned	3 Years Std. warranty including lifetime warranty	2 Years Std. manufacturer warranty

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Active Equipment for Network Item No. 1: Network Switch		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		TP Link	TP Link	D-Link	Linksys	CISCO	D-Link
Model		TL-SG2424P	TL-SG2424P	DES-1210-28P	LGS124P	SG112-24-UK	DLGGS-1210-28P
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	USA & China, Malaysia, Holland etc.	??
Sr.#	Specifications/Technical parameters						
01	24 ports (unmanaged)	24 ports	24-Ports, 4 Combo	24 Ports, 4 SFP	Yes	24 Ports	24 Ports, 4 SFP
02	All Gigabit ports	Not mentioned	Yes	Yes	Yes	Yes	Yes
03	PoE Supported	Not mentioned	Yes	Yes	12 PoE Supported	Yes	Yes
04	Desktop/Rackmount	Not mentioned	Yes	Yes	Yes	Yes	Yes
05	Government approved brands	Yes	Yes	Yes	Not mentioned	Yes	Yes
06	Warranty	2 Years	Not mentioned	2 Years original warranty	Not mentioned	3 Years Std. warranty including lifetime warranty	2 Years Std. manufacturer warranty

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Active Equipment for Network Item No. 2: Network Switch		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies
Make		TP Link	TP Link	D-Link	Linksys	CISCO
Model		TL-SG2424P	TL-SG2424P	DGS-1016A/E	LGS116P	SG110-16-UK
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	USA & China, Malaysia, Holland etc.
Sr.#	Specifications/Technical parameters					
01	16 ports (unmanaged)	16 Ports	24-Ports , 4 Combo	16 Ports	16 Ports	16 Ports
02	All Gigabit ports	Not mentioned	Yes	Yes	Yes	Yes
03	PoE Supported	Not mentioned	Yes	Not mentioned	8 PoE supported	Yes
04	Desktop/Rackmount	Not mentioned	Yes	Yes	Yes	Yes
05	Government approved brands	Yes	Yes	Yes	Yes	Yes
06	Warranty	2 Years	Not mentioned	2 Years original warranty	Not mentioned	3 Years Std. warranty including lifetime warranty

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Active Equipment for Network Item No. 3: Network Switch		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Engenius	TP Link	D-Link	Cisco	CISCO	D-Link
Model		EGS2110P	TL-SG1008PE	DGS-1008MP	SG100D-08P	SG100D-08-EU	DLDGS-1210-10P
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	USA & China, Malaysia, Holland etc.	Not mentioned
Sr.#	Specifications/Technical parameters						
01	8 ports (unmanaged)	8 Ports	8 Ports	8 Ports	8 Ports	8 Ports	8 Ports, 2 SFP Ports
02	All Gigabit ports	Not mentioned	Yes	Yes	Yes	Yes	Yes
03	PoE Supported	Not mentioned	Yes	Yes	4 PoE Ports	Yes	Yes
04	Desktop/Rackmount	Not mentioned	Yes	Yes	Yes	Yes	Yes
05	Government approved brands	Not mentioned	Yes	Yes	Yes	Yes	Yes
06	Warranty	2 Years	Not mentioned	2 Years original warranty	Not mentioned	3 Years Std. warranty including lifetime warranty	2 Years Std. manufacturer warranty

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<u>Active Equipment for Network</u> Item No. 4: Wireless LAN Card		ABM	Skif Enterprises	DataDistinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		TP Link	TP Link	D-Link	TP-Link	TP Link	
Model		TL-WN851NP	WN851ND	DWA-548	851ND	TL-WN851ND	
Country of Origin & Manufacturing		Not mentioned	Not mentioned	Taiwan	Not mentioned	Singapore	Not mentioned
Sr.#	Specifications/Technical parameters						
01	PCI Wireless Network Adapter Card	Yes	Yes	Yes	Yes	Yes	Yes
02	Supports WPA & WPA2 encryption	Yes	Yes	Yes	Yes	Yes	Yes
03	300 Mbps or higher speed	Yes	300 Mbps	Yes	Not mentioned	300 Mbps	300 Mbps
04	802.11g/n or latest	Not mentioned	802.11g/n	802.11g/n	802.11g/n	802.11n	802.11g/n
05	Good signal range	Yes	Yes	Yes	Yes	Yes	Not mentioned
06	Government approved brands	Yes	Yes	Yes	Yes	Yes	Not mentioned
07	Warranty	2 Years	Not mentioned	2 Years original warranty	Not mentioned	Not mentioned	Not mentioned

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Softwares Item No. 1: Antivirus		Paradise Technologies	ABM	Data Distinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make			Not mentioned	Microsoft	Kaspersky	Kaspersky	Kaspersky
Model		End Point Protection	Not mentioned		Not mentioned	End Point Security for Business	End Point Security for Business
Country of Origin & Manufacturing			Not mentioned	USA	Not mentioned	America	Not mentioned
Sr.#	Specifications/Technical parameters						
01	Latest Registered Antivirus Software both for Servers (running Microsoft Windows Server 2008 & 2012) and Workstations (running Windows XP, 7, 8 & 10)	Not mentioned	Latest Registered Antivirus Softwares	Server & Workstation	Yes	Workstation, Laptop, Server, MDM	Server & Workstations
02	Definitions upgradeable through Internet for one year or above	Not mentioned	One year	One year	One year	Not mentioned	One year
03	Original Disk of each Antivirus license	Not mentioned	Yes	Yes	one DVD	Not mentioned	Not mentioned

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Softwares Item No. 2: Microsoft Office		ABM	Data Distinct Solutions	Life Line Solutions	DWP Technologies	HI-TEQ Automation
Make		Microsoft	Microsoft	Microsoft	Microsoft	Microsoft
Model						
Country of Origin & Manufacturing			USA	Not mentioned	USA	
Sr.#	Specifications/Technical parameters					
01	Office 2013 or Latest Version	Office 2013 Home and Business	Office 2016	Office 2013	2016 Sngl OLP 1License NoLevel	Pro Plus 2013 Single User OLP NL Academic
02	Licensed/Registered	Not mentioned	Yes	Yes	Yes	Yes
03	Separate Original Disk of each MS Office	Not mentioned	Yes	Yes	Not mentioned	Microsoft not offer Media Kit for Education Licensed

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<u>Softwares</u>				
Item No. 3: Microsoft ISA Server		Name of firm	Name of firm	Name of firm
Make				
Model				
Country of Origin & Manufacturing				
Sr.#	Specifications/Technical parameters			
01	Latest Registered Version with installation & its management training on site			


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<u>Softwares</u> Item No. 4: Relational Database Server		DataDistinct Solutions	DWP Technologies	HI-TEQ Automation
Make		Microsoft	Microsoft	Microsoft
Model		SQL Server 2014	Microsoft DataBase Server	SQL Server 2014
Country of Origin & Manufacturing		USA	USA	
Sr.#	Specifications/Technical parameters			
01	Microsoft SQL Server 2014 Enterprise Edition or latest (Registered/Licensed)	Microsoft SQL Server 2014 Enterprise Edition	Microsoft SQLSvr EnterpriseCore 2014 Sngl Academic OLP 2Licenses CoreLic Qualified	Microsoft SQL Server 2014 Enterprise core edition <u>per core licensed (Single Core)</u>

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<u>Miscellaneous</u>		DWP Technologies	HI-TEQ Automation
Item No. 1: Air Conditioner (A.C) for Server Room			
Make		Gree	Kenwood
Model			
Country of Origin & Manufacturing		Pakistan & China	
Sr.#	Specifications/Technical parameters		
01	Capacity: 1.5 & 2 Ton	1.5 Ton	1.5 & 2 Ton
02	Split type	Yes	Yes
03	Wall mounted	Yes	Yes
04	Complete with all accessories	Yes	Yes, 10 feet pipe & installation
05	Government approved brands	Yes	Yes

M. Talal 



PRINCIPAL
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 Rahim Yar Khan
 24/3/16