Introduction: We are going to install our start-up company to the new building, so we have to install the Datawarehouse in that building. Which requires some planning, investments, and proper arrangements so that we can easily and efficiently build up our Datawarehouse for the better performance and better security in the installation.

Overview:

In this Datawarehouse installation, the required material with number of quantities of each equipment and tool is listed in the report. Each tool and equipment have its cost individually and total amount required for the required materials based on the quantity are also listed in the report in detail in initial cost summery 2020 section. And overall costing required for one years in these installations are also listed in the same table. The dimension of the space is already given, so based on that we have to make an efficient and managed floor plane and its design. Which we are going to discussed in this report in detail.

Cost for the required equipment and materials: The calculation of the total cost required in these installations are listed below, which explains that the number of items are required item with its cost in the overall installation of the Datawarehouse are listed below. And given table explaining about the market price of item for the unit quantity. And number of items required in the installation are listed below. Based on that we have created a purchase order for initial cost summery for the 2020, which is for one years.

Which explains about the costing of the hardware, software, servers and setups etc.

- **Hardware:** This particular table shows the shipping items of the required hardware in the installation for the item, device type, details of the device, vendor of the device from where we purchased the hardware, number of quantities required, price of the unit item and total extended price of the items.
- **Software:** This table explains about the shipping items of the required software. In which the cost of unit items of the software, software type, details of the software, vendor of the software, quantity of the required software, and total price for this required software.
- **Setup Cost:** This particular table shows the shipping of the required expanses with its unit cost and total required cost.
- **Recurring cost (Printer Cartridges):** This table explains about the required number of printers and other IOT devices, with its unit cost and total cost based on the number of items required.
- **Paper:** These particular expanses table explains about the amount number of paper and types of paper required. And the expanses for the unit item with its cost and cost of the total required items for one years are listed in this tables.
- **Miscellaneous cost:** This expanse table is showing about the expanses happened for the internet connection, electric expanses etc. and the required amount for the one year.

The shipping cost for the items are listed below.

Initial cost summery 2020

Device type	Details	Item	Vendor	Qty	Unit Price	Extended Price

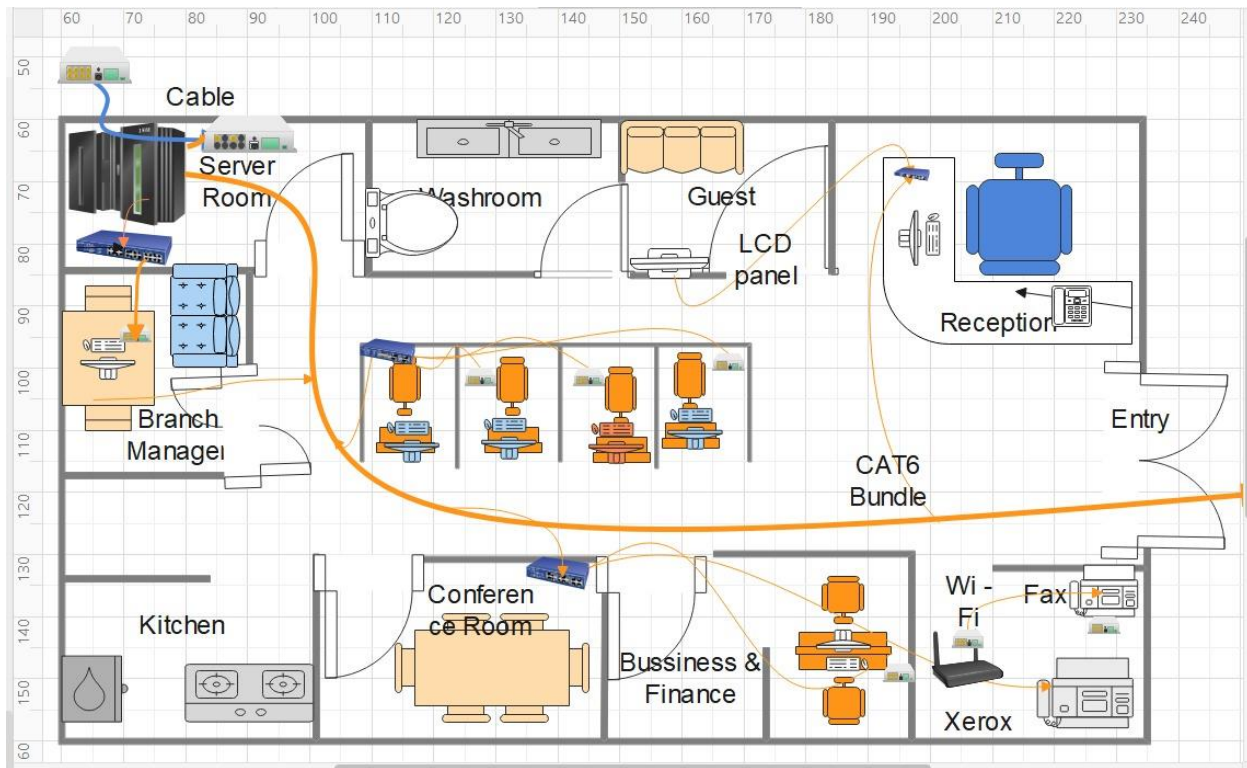| Hardware:						
Workstations	HP DC5100, 512MB DDR2, 40gb HD, 2.8 ghz P4, Integrated Graphics, CD-RW, GB ethernet, Optical mouse, includes Windows XP Pro	DC5100	HP.com	12	$1460.76	$17529.12
Monitor	Samsung 17-inch Sync Master 710N	RCF710NBLACK	https://legendmicro.com	12	$259.99	$3119.88
Application Server	HP ProLiant DL320 G3 SCSV Server/ Dual 72.8 GB hot swappable HDs/1GB ECC DDR memory	DL320	HP.com	1	5343.30	$5343.30
Firewall Server	HP ProLiant DL320 G3 SATA Server Intel® Celeron ® 2.93GHz/533MHz processor, 512 MB Advanced ECC PC3200 DDR SDRAM, HP 80GB SATA 1.5Gb 7200 rpm 1'' Hard Drive, Embedded HC7782 dual-port gigabit	DL320	HP.com	1	**$1460.00**	$1460.00
UPS 400 VA	Athena Power 400VA/200W UPS, Model UP-XP400-Retail	N82E16842116001	https://www.newegg.com	12	$68.00	$816.00
UPS 1500 VA	KIN-1500A-UPS 1500VA 2U Rack Mount	UPS-KIN-1500A-RM	Rackmount Pros	**2**	$460.00	$920.00
Laptops	Intel ® Pentium ® 4530 (3.0 GHz, 1 MB L2 cache,	Nx9600	HP.com	4	$1880.65	$7522.60

	800 MHz FSB) 512MB 400 MHz Shared DDR || SD RAM (1DIMM) 80GB 5400 RPM hard drive, 17.0-inch TFT WXGA 24X DVD/CD-RW (fixed) 56K High speed modem, 10/100/1000 NIC, 12-Cell li-ion battery Touch Pad 802.11 b/g MiniPCI card, Windows XP Pro					
Inkjet Printers	HP desk jet 6122 printer/4800 ×1200 color/ 20 PPM	C8954 BA2L	Future PowerPC	7	$189.00	$1323.00
Laser Printers	HP Laser Jet 4200/LAN/1200 ×1200 dpi6	N82E1682810 4331	Future PowerPC	2	$1214.00	$2428.00
Multifunc tion	HP Color Laser Jet 9500 mfp/color laser, scanner, copier, fax/4 paper trays/ 512mb memory/LAN enabled	F35165	https://www .pcnation.co m	1	$14070	$14070
Switch	Cisco Catalyst WS-C2970-G24T-E24 port 10/100/1000T base-T gigabit	**WS-C2970G-24T-E**	https://www .computergi ants.co.il/	1	$3179.00	$3179.00
Patch Panel	TREND ware/TREND net 48-Port Cat, 6 Rack Mount Patch Panel	N82E16B3110 1006	https://www .newegg.co m	1	$96.00	$96.00
KVM Switch	IOGear MiniView Ultra KVM Switch GCS 138-	GCS 138	https://www .compsource .com/	1	$210.00	$210.00

	monitor/Key board/ mouse switch-8 ports					
LCD Rackmount	15'' LCD Keyboard 1U Rackmount	RMD515	https://shop.serversdirect.com/	1	$1008	$1008
Tape Drive	Certance CD72 36GB Native/uncompressed	CD72LW1U-S	https://www.computergiants.co.il/	1	$1118.00	$1118.00
Tap Media	1PK 36/72GB DAT72 4MM TAPE CARTRIDGE	CDM72	https://www.computergiants.co.il/	30	$25	$750
Rack	Ritual 42U PS Server Rack Enclosures	-	DSI Wholesaler	1	$850	$850
					Total Amount	$31872.9
Software:						
Office	MS Office 2003 Pro Included with price of workstation only need 4 copies for the laptops	269-06738-oem	Roval Discount	4	$295.0	$1180.00
Server OS	RED HAT ENTERPRISE LINUX ES 3.0	RHF0147US	Qsurance	1	$826.73	$826.73
ScorPEO	3 users		ScorPEO	1	$15000.00	$15000.00
ScorPEO Licenses	12 users		ScorPEO	12	$3250.00	3900.00
					Software Total:	$20906.7
Setup Costs:						
Data Conversion	ScorPEO 24 hours	-	-	24	$130.00	$3120.00
Training	2 Days Onsite	-	-	2	$1100.00	$2200.00

Expenses	Airfare	-	-	1	$405.00	$405.00
Expenses	Lodging (six nights)	-	Embassy Suites	6	$145.00	$870.00
Drop Installation	Two Bubbas Installation	-	-	32	$75.00	$2400.00
					Total Setup Costs:	$8995.00

Total Network Installation Costs	**$61774.6**

Recurring Costs (Annual Estimation):

Printer Cartridges:

Laser Toner	HP 38A black Toner cartridge for HP, Laser Jet 4200 Series-12000 pages	Q1338A	Imaging Supply Depot	12	$136.95	$1643.4
Laser Toner (Magnetic)	HP Compatible 4200 MICR Toner Cartridge 12K	Q1338M	Imaging Supply Depot	12	$199.95	$2399.4
Color Inkjet	HP 78-Tri-color Print cartridge	C6578DN	Future PowerPC	14	$44.00	$528.00
Black Inkjet	HP 45-black-Print Cartridge	5164A	Future PowerPC	14	$40.00	$560.00
				Printer Cartridges Total:		$5130.8

Paper

Checks	1000 sheet Quanities, Copier Void which produces a series of voids if the check is copied.		Ganson Store	10	$11.00	$110.00

	Watermark feature which cannot be photocopied various color of pantographs, Mircoprinting on border, Security banner on front, Invisible or Visible Fibers in the paper					
Regular Stock	White, 500 Sheets, Color Laser Paper, 8-1/2'' ×11''	20325952	Officemax	24	$11.99	$287.76
					Total:	$397.76
Miscellaneous Costs:						
Internet Service	DSL Line from Verizon (1.54 mbs)	-	Verizon	12	$210.00	$2520.00
ScorPEO Support	15% of purchase price	-	ScorPEO	1	$7275.00	$7275.00
				Miscellaneous Costs:		$9795.00
				Total Recurring Cost:		$15323.56
			Total Cost for the first year:	$77098.16		

Floor plan:

Rack view: