

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching-learning. viz., classrooms, laboratories, computing equipment etc.**

**Computing Facilities at College Level**

Item Name	Numbers	Details	Qty	Purpose of use
Desktops	1421	Dell i7 3.2 Ghz ,16 GB RAM DDR4,256 GB SSD, HDD 1 TB	1	Heads of Departments,Software Development Center,Central Library
		Dell i7 3.2 Ghz ,16 GB RAM DDR4, HDD 1 TB	5	
		Dell i7 3.2 Ghz 32GB RAM DDR4, HDD 1 TB	2	
		HP i7(280 G3)RAM DDR4, HDD 1 TB	100	
		<b>Total</b>	<b>108</b>	
		HP i5 3.04 GHz RAM 8 GB, HDD 1 TB	170	Departmental offices,Sections,Labs,Centre of excellence,Digital Library
		HP i5 3.04 GHz RAM 8 GB, HDD 1 TB	15	
		HP i5 3.04 GHz RAM 8 GB, HDD 500 GB	35	
		HP i5 2.20 GHz RAM 4 GB, HDD 500 GB	5	
		HP i5 2.20 GHz RAM 4 GB, HDD 1TB(All in one)	2	
		HP i5 3.0 GHz RAM 2 GB, HDD 500 GB	300	
		HP i5 3.2 GHz RAM 4 GB, HDD 500 GB	30	
		<b>Total</b>	<b>557</b>	
		HP i3 2.20 GHz RAM 4 GB, HDD 1TB(all in one)	12	Departmental offices,Sections,Labs,Centre of excellence,Library
		HP i3 2.09 GHz RAM 2 GB, HDD 500 GB	75	
		Lenovo i3 3.40 GHz RAM 2 GB, HDD 500 GB	48	
		HP i3 2.09 GHz RAM 2 GB, HDD 500 GB	150	
		Lenovo i3 3.40 GHz RAM 2 GB, HDD 500 GB	150	
		HP i3 3.10 GHz RAM 2 GB, HDD 500 GB	150	
		<b>Total</b>	<b>586</b>	
		C2D	170	
		<b>Total</b>	<b>170</b>	
Laptops	131		1	Heads of departments ,Departments, Sections,Labs,Centre of excellence
		Dell i7 16GB RAM 1 TB HDD	3	
		Dell i5 8GB RAM 1 TB HDD	6	
		Dell workstation Mobil precision 7200 CTO RAM 32 GB, HDD 2 TB	1	
		HP 440 GHz core i7,2.50 GHz,4 GB RAM,500 Hard Disk	12	
		HP Note book 240 core i5,2.50 GHz,2 GB RAM,500 Hard Disk	10	
		Dell Core i5 3320M 2.6 Ghz,3 MB Cache,4 GB RAM, 1 TB HDD	1	
		HP Note book 450S core i5,2.50 GHz,2 GB RAM,500 Hard Disk	47	
		Apple (APMC1064)	2	
		Lenovo Intel Pentium 2.0 GHz,2 GB RAM,500 GB Hard Dis	12	
		Hp Compag 510 Intel core 2 Duo CPU, 2.00 Ghz,RAM 1GB,HDD 160 GB	26	
		Hp 550 Intel core 2 DuoCPU 1.40 Ghz,RAM 1024 MB HDD 160 GB	9	
		HCL 1.73Ghz ,RAM 512MB, HDD 80GB	1	
Servers	3 Servers and 4 Cloud Hostings	ProLiant DL380e Gen8 Rack Server	1	Authentication Server and Cloud Servers
		HP ProLiant ML 350 G6	1	
		Power-edge R720	1	
		50 GB AWS Cloud Server for Software Development Centre	1	
		Third Party Server Hosting college ERP on AWS	1	
		Third Party Servering Hosting College Alumni Portal AlmaConnect	1	
		100 GB IBM Cloud Server for Hosting College Website (Through third party)	1	
		<b>Total</b>	<b>131</b>	
LCD Projector	71	INFOCUS( Classrooms,Labs,Department Offices,Offices,Seminar Halls	45	Software Development Center,Centre of excellence, Department, Labs,Seminar Halls,offices,Computer Centers
		Hitachi	20	
		Sony	6	
		<b>Total</b>	<b>71</b>	

<b>Scanners</b>	15	HP N6310	1	Department offices, Sections, Library
		HP 5590	1	
		HP 2500+	12	
		HP Scanjet	1	
		<b>Total</b>		<b>15</b>
<b>Wi-Fi kits</b>	206	WiFi Access Points: Cisco, Ruckus, Fortinet, link		Hostels, Departments, Admin Block, Academic Block
<b>Wi-Fi Speed</b>	54 Mbps	Wi-Fi Connection		
<b>LAN Speed</b>	100/1000 Mbps	LAN Connection		For Entire Campus
<b>No of smart classrooms</b>	68+19	Including Hitachi Ultrashot Throw Projector, 82" Diagonal ceramic touch board, ALL in one PC and Internet ( <b>Total 68 Rooms</b> ) Including Infocus Projectors, Projection Screen and Internet ( <b>Total 12 Rooms</b> )		Class Room No. CL Block : CL-1 to CL-26, 401, 501, 510 LT Block : LT-1 to LT-27 ME Block : 30,31,32,33,34,35,36, 40,41,42,43,44, ME01 Back Block : BB-1, BB-2, BB-3, 6,7 MCA Block: MCA 01
		Computer and green board		
<b>Internet Bandwidth</b>	1GBPS	Dedicated Leased Line		For Entire Campus
<b>Number of licensed software and Details</b>	System Software-08	<b>System Software-8</b> Windows 11 Pro, Windows 10 Pro, Windows 8.1 Pro, Windows Server 2016, Windows 2012, Quick Heal Internet Security, Quick Heal EPS Business (Paper Licenses.), Quick Heal Server Edition Including Microsoft Campus Agreement		Labs & Offices
	Application Software-41	<b>Application Software-41</b>		
<b>Power Backup Details</b>	45	Online APC UPS-5x40KVA , 7x20KVA, 8x10KVA, 3x8KVA, 3x6KVA, 3x5KVA, 4x3KVA,&1KVA		Departments and Sections
<b>Printers</b>	136	PRINTERS (DESKJET)	20	HoD, Software Development Center, Centre of excellence, LabsDepartments,, Library
		PRINTERS (LASERJET)	101	
		PRINTERS (All in one)	13	
		Zebra ID Card Printer	2	
		<b>Total</b>	<b>136</b>	
<b>Pen Drives</b>	31	Pendrive 16 GB HP	10	Departmental offices, Sections
		Pendrive 16 GB Kingston	5	
		Pendrive 32 GB HP	2	
		Pendrive 32 GB Kingston	2	
		Pendrive 32 GB Sandisk	5	
		Pendrive 64 GB HP	2	
		Pendrive 64 GB Sandisk	5	
		<b>Total</b>	<b>31</b>	
<b>Routers</b>	Nil			
<b>Firewall</b>	1	Fortinet 500E		Network Security
<b>Switches</b>	L3, L2, Including Unmanaged	L3,L2 Managed and Unmanaged Switches	138	For College Network

**Institution Frequently Updates its IT Facilities- 2016-17**

EQUIPMENT	ACADEMIC YEAR	QUANTITY	PO and Invoice Details
<b>Hardware</b>			
Printer	2016-17	6	
LCD Projector		15	
Scanner:		2	
Computer Updation		155	
Access Point		19	
<b>Software</b>			
Update in Computer Software	2016-17	i)Digital Language Lab Software (200 User) Applied Sc. ii) Vissim/Coman 8.0 Suite (User-10) ECE iii) Tanner Software(User-05) ECE IV) EMU 8086 Simulator (Qty- Unlimited) ECE	
Firewall Renew		Renewal of Fortigate Firewall 800C	(AKGEC/PUR /CSC/16-17/709, Invoice RI/2016-17/617)
<b>Bandwidth</b>			
Bandwidth	2016-17	40 Mbps	(AKGEC/DO/ 16-17/255, Invoice CJ/PI/2016-17/LL/074)



**Institution frequently updates its IT facilities - 2017-18**

EQUIPMENT	Academic Year	QUANTITY	PO and Invoice Details
<b>Desktop</b>			
HP Desktop, i5 Processor, 8 GB RAM, 500 GB HDD, Windows, 18.5" TFT Monitor	2017-18	35	AKGEC/PUR/CS/17-18/449 Invoice 2017-18/GST/756
HP Desktop, i5 Processor, 8 GB RAM, 1 TB HDD, Windows, 18.5" TFT Monitor		15	2017-18/GST/955
HP Desktop, i7 Processor, 8 GB RAM, 1 TB HDD, Windows, 18.5" TFT Monitor		96	
HP Desktop, i7 Processor, 32 GB RAM, 1 TB HDD, Windows, 18.5" TFT Monitor		4	
<b>Firewall</b>			
Renewal of Fortigate Firewall 800C	2017-18	1	AKGEC/PUR/CSC/17-18/730, Invoice 540
<b>Bandwidth</b>			

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Software – All College			
Renewal - Microsoft EduCloud	2017-18	150	AKGEC/PUR/CSC/16-17/755 Invoice 2017-18/GST/1665
Quick Heal Server Edition for 3 Years (User-08)		8	AKGEC/PUR/CSC/20-21/270 Invoice 2020-21/GST/738
Quick Heal Internet Security and EPS Antivirus for 3 Years (User-850)		270	AKGEC/PUR/CSC/20-21/407 Invoice : 2020-21/GST/966
Software - Library			
KOHA LMS	2017-18	Multi user	JUP/AKG/5001
DSpace (Institutional Repository)		Multiuser	Opensource
Attendy Software For Footfall of Library Users		Multiuser Permanent	Developed and maintained by College Software Development centre
Software – Department of Civil Engineering			
General purpose NISA - a finite element analysis software	2017-18	5	AKGEC/PUR/CIVIL/18-19/124 Invoice : NISA/2018-19/059

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Renewal of Bentley academic software for 3 years		10	AKGEC/PUR/CE/17-18/ Invoice : AET/17-18/036
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### **Software – Department of Electronics and Communication Engineering**

IPROFESSIONAL Version TCAD & Genius (2D/3D) Device Systems Simulator and SYMICA EDA (AMS)- Microelectronics Design Tool	2017-18	01 ( Prof. Version) + 03 ( Visual TCAD GUI) and 03 Symica License + 01 License POLYTEDA DRC/LVS/RDE Permanent	AKGEC/PUR/EC/17-18/500 Invoice : CDS/12/01
NetSim Software		Multiuser Permanent	AKGEC/PUR/EC/17-18/389 Invoice : 8

### **Software – Accounts**

Compupayrollbasic (Payroll Software)	2017-18	1	PISPL/July/18-19/3874
CompuTDS (TDS Software)		1	

### **ACCESSORIES**

Sony EX430 Projector	2017-18	4	AKGEC/PUR/CS/17-18/427 Invoice 043
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Hitachi Projector	ED32X	10	AKGEC/PUR/CS/17-18/426 Invoice 042
HP Laserjet Printer M 126 NW		1	AKGEC/PUR/CS/17-18/455 Invoice : GST/17-18/90
DLP Projector Infocus		1	AKGEC/PUR/CS/18-19/110 Invoice : DIMPL/ND-18-094
Creative SBS A35 Speaker		3	AKGEC/PUR/CS/17-18/455 Invoice : GST/17-18/90
HP A3 Laserjet Printer 436n		1	AKGEC/PUR/Civil/18-19/373 Invoice : 2018-19/GST/1550

#### Alma Connect Alumni Portal

Alma Connect 19 March 2018 to 18 October 2018	2017-18	1	1625
Alma Connect 19 October 2018 to 18 march 2018	2017-18	1	1624

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**Institution frequently updates its IT facilities - 2018-19**

EQUIPMENT	Academic Year	QUANTITY	PO and Invoice Details
<b>Desktop</b>			
HP Desktop 280 G4 MT, i5 Processor, 8 GB RAM, 1 TB HDD, Windows 10 Home, 18.5" TFT monitor	2018-19	125	AKGEC/PUR/CS/18-19/436 Invoice 2018-19/GST/1905
Dell Optiplex 3060 MT , 8 <sup>th</sup> Gen, i7 Processor, 16GB RAM, 2 TB HDD, Windows Home, 19" monitor		5	AKGEC/PUR//CS/18-19/437, Invoice TCPL/18-19/210)
Dell Optiplex 3060 MT , 8 <sup>th</sup> Gen, i7 Processor, 32 GB RAM, 2 TB HDD, Windows Home, 19" monitor		2	
<b>Laptop</b>			
Vostro 3478 i5 Procesor, 8 GB RAM, 1 TB HDD, 14", Windows 10 Home	2018-19	6	AKGEC/PUR//CS/18-19/437, Invoice TCPL/18-19/210)
<b>Smart Interactive Boards for Classrooms and Accessories</b>			
• Ultra Short Throw Projector	2018-19	5	AKGEC/CSC/18-19/487 Invoice : DIMPL/ND/18-0257

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• Interactive White Board		4	AKGEC/CSC/18-19/510 Invoice : DIMPL/ND/18-0282
• All in One Computer			
• Green Chalk Board			

### UPS

20kVA UPS	2018-19	1	AKGEC/PUR/CS/19-20/21 Invoice BKT19-20/TI/0190
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### Wifi Access Points

Cisco Access Points	2018-19	25	(AKGEC/PUR/CS/18-19/386, Invoice NPSE 0063)
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### Firewall

Upgrade to Fortgate Firewall 500E (3 Years upto February 2022)	2018-19	1	AKGEC/PUR/CSC/18-19/455, Invoice :854, 855, 913, 914, 1396, 1403(2020-21)
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### Internet Bandwidth

Internet Bandwidth	2018-19	250 Mbps on fiber 50 Mbps on radio	AKGEC/DO/18-19/208 Invoice CJ/LL/18-19/079 CJ/LL/18-19/191
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### Software – All College

Renewal – Microsoft EduCloud	2018-19	150	AKGEC/PUR/CSC/18-19/488 Invoice
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			2018-19/GST/1977
<b>Software – Library</b>			
KOHA LMS	2018-19	Multi user	Open Source
Dspace (Institutional Repository)		Multiuser	
Attendy Software For Footfall of Library Users		Multiuser Permanent	Developed and maintained by College Software Development centre
<b>Software – Department of Electronics and Communication Engineering</b>			
OptiSystem 15 (Optiwave Software)	2018-19	3 Permanent	AKGEC/PUR/EC/18-19/248 Invoice : HRU/2018-19/04
<b>Software – Department of Electrical and Electronics Engineering</b>			
DIGSILENT POWER FACTORY	2018-19	25	AKGEC/PUR/EN/18-19/222 Invoice : 25
P S CADX4(V4 6.3)		10	AKGEC/PUR/EN/18-19/227 Invoice : 405
TINA PRO Software V11		1	AKGEC/PUR/EN/18-19/226 Invoice : 2018-19/057
<b>ACCESSORIES</b>			
HP 1020 Plus Laser jet Printer	2018-19	2	AKGEC/PUR/CS/18-19/485 Invoice : GST/18-19/180

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HP Scanner 2500 F1Flatbed		10	AKGEC/PUR/CS/18-19/485  Invoice : GST/18-19/180
DLP Projector Infocus 220i		1	AKGEC/PUR/CS/18-19/152  Invoice : DIMPL/ND/CH/18-080
6'x4' Matt White Wall Mount Motorized Projection Screen with Cordless Remote		1	AKGEC/PUR/CS/18-19/152  Invoice : DIMPL/ND/CH/18-080
HP Laser Printer 1020 Plus		3	AKGEC/PUR/CSC/18-19/239  Invoice : GST/18-19/114
HP 1020 Plus Laserjet printer		1	AKGEC/PUR/CS/19-20/67  Invoice : GST/19-20/76
HP Laserjet Printer Enterprises Model M608dn		1	AKGEC/PUR/CS/19-20/100  Invoice : GST/19-20/78
HP Laserjet Printer M128FN		1	AKGEC/PUR/CS/19-20/197  Invoice : 2019-20/GST/1081

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HP Laserjet Printer 1200A		1	AKGEC/PUR/CS/19-20/159  Invoice : 2019-20/GST/953
Hitachi Projector	LCD	2	AKGEC/PUR/CSC/237  Invoice: DIMPL/ND/Inv/18-0157

#### **Website Hosting**

Website Hosting on IBM Cloud	2018-19	1	AKGEC/CORE/WO/OFF/19-20/152
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#### **Alma Connect Alumni Portal**

Alma Connect  19 March 2019 to 18 October 2019	2018-19	1	1702
Alma Connect  19 March 2019 to 18 October 2019		1	1772

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**Institution frequently updates its IT facilities - 2019-20**

EQUIPMENT	Academic Year	QUANTITY	PO and Invoice Details
<b>Desktop</b>			
HP Desktop 280 G5 MT, i5 Processor, 9 <sup>th</sup> Generation, 8 GB RAM, 1 TB HDD, Windows 10 Home, 18.5 TFT Monitor	2019-20	100	AKGEC/PUR//CS/19-20/536 Invoice  2020-21/GST/59
<b>Laptop</b>			
Dell Inspiron i7 Laptop, 8 <sup>th</sup> Generation, 16 GB RAM, 1 TB HDD, 4 GB Graphics Card, 15.6" Screen, Windows 10	2019-20	3	AKGEC/PUR/CSC/19-20/535  Invoice : 97
<b>Smart Interactive Boards for Classrooms and Accessories</b>			
• Ultra Short Throw Projector	2019-20	6	AKGEC/CSC/19-20/104  Invoice : DIMPL/ND/19-044
• Interactive White Board		11	AKGEC/CSC/19-20/368  Invoice : DIMPL/ND/19-139
• All in One Computer Green Chalk Board			
<b>BB-1, BB-2, BB-3 Sound System</b>			
BB-1, BB-2, BB-3 Sound System	2019-20	3	AKGEC/CS/20-21/254  Invoice  DIMPL/ND/20-063

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<b>Video Conferencing</b>			
<b>Wifi Access Points</b>			
Cisco Access Points	2019-20	111	(AKGEC/PUR/CSC/19-20/292, Invoice NPSE 0119)
<b>Bandwidth</b>			
50 Mbps	2019-20	350 Mbps on fiber 100 Mbps on radio	AKGEC/DO/19-20/135 Invoice CJ/LL/19-20/083 CJ/LL/19-20/196
<b>Software – All College</b>			
Renewal - Microsoft EduCloud	2019-20	150	AKGEC/PUR/CSC/19-20/563 Invoice GST/19-20/286
Edumarshal College ERP		1	AKGEC/PUR/WO/19-20/502 Invoice ECAN/July 2020/34 ECAN/2020-21/89 ECAN/2021-22/15
<b>Software - Library</b>			
KOHA LMS	2019-20	Multi user	
DSpace (Institutional Repository)		Multiuser	Open Source

Memo to Bhawna



Attendy Software For Footfall of Library Users		Multiuser Permanent	Developed and maintained by College Software Development centre
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#### **ACCESSORIES**

86" All in one Smart Interactive Panel	2019-20	1	AKGEC/PUR/CSC/19-20/482 Invoice : BPL1920/822
HP Laserjet Mono Single Function Printer		1	AKGEC/PUR/RO/19-20/52 Invoice : 2019-20/GST/1196
HP laserjet Printer Enterprise Model		1	AKGEC/PUR/RO/19-20/52 Invoice : GST/2019-20/78

#### **MCA Website Development**

Content Updation 75 pages	2020-21	1	AKGEC/WO/MCA/20-21/05 Invoice : WIPL/20-21/037
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#### **Landing Page for College Website**

Landing Page for College Website	2019-20	1	Verbal Order Invoice : WIPL/20-21/050
Alma Connect Alumni Portal			
Alma Connect 19 October 2019 to 18 March 2020	2019-20	1	1724

*Mamta Bhushan*



**Institution frequently updates its IT facilities - 2020-21**

EQUIPMENT	Academic Year	QUANTITY	PO and Invoice Details
<b>Desktop</b>			
HP Deskjet 280 G6 MT, i7 Processor, 10 <sup>th</sup> Generation, 16 GB RAM, 1 TB HDD, Windows 10 Home, 18.5" TFT monitor	2020-21	1	AKGEC/PUR//CS/20-21/419, Invoice  2021-22/GST/45
<b>Smart Interactive Boards for Classrooms and Accessories</b>			
• Ultra Short Throw Projector	2020-21	38	AKGEC/CSC/20-21/214  Invoice :  DIMPL/ND/20-050
• Interactive White Board			DIMPL/ND/20-057
• All in One Computer			DIMPL/ND/20-084
• Green Chalk Board		6	AKGEC/CSC/20-21/306  Invoice :  DIMPL/ND/20-086
<b>Sound Reinforcement for Mini Auditorium</b>			
Sound Reinforcement for Mini Auditorium	2020-21	Complete System	AKGEC/CSC/20-21/118  Invoice  DIMPL/ND/20-040

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<b>Video Conferencing</b>			
<b>UPS</b>			
30kVA UPS	2020-21	1	AKGEC/PUR/CS/20-21/308  Invoice  BKT 20-21/TI/1675
10kVA UPS		2	AKGEC/PUR/CS/20-21/403  Invoice  BKT 20-21/TI/2016
10 kVA UPS		1	AKGEC/PUR/CS/21-22/16  Invoice  BKT 21-22/TI/0443
10 kVA UPS		2	AKGEC/PUR/CS/21-22/231  Invoice  BKT 21-22/TI/1376
<b>Network Backbone Upgrade</b>			
Network Up upgraded from 100 Mbps to 1000 Mbps	2020-21		(AKGEC/PUR/CS/20-21/87, Invoice NPSE0136, NPSE 0133, NPSE 0137 NPSE 0134, NPSE 0135)
<b>Bandwidth</b>			
100 Mbps	2020-21	1 Gbps on fiber	AKGEC/DO/20-21/78

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		100 Mbps on radio	Invoice CJ/LL/20-21/075 CJ/LL/20-21/154
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#### **Software – All College**

Renewal - Microsoft EduCloud	2020-21	150	AKGEC/PUR/CSC/20-21/418  Invoice  SW/S/21-22/14
CodeTantra Learning Platform for conduct of online PUT Examination		22000 tests	AKGEC/PUR/CSC/21-22/72  Invoice  10971
Codetantra Learning Platform for C Programming		1000 students	AKGEC/WO/CSC/20-21/204  Invoice  10618

#### **Software - Library**

KOHA LMS	2020-21	Multi user	
DSpace (Institutional Repository)		Multiuser	Open Source
Attendy Software For Footfall of Library Users		Multiuser Permanent	Developed and maintained by College Software Development centre

#### **Accessories**

HP Officejet AIO Printer	2020-21	1	AKGEC/PUR/CS/21-22/17  Invoice : 201-22/GST/301
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Zebra ZC 300 Card Printer		1	AKGEC/PUR/CSC/20-21/433 Invoice : GST/2021-22/03
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### **Website Hosting**

Website Hosting on IBM Cloud	2020-21	1	AKGEC/WO/MCA/21-22/154 Invoice : WIPL/20-21/139
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### **Search Engine Optimization**

Search Engine Optimization (20 KEYWORDS)	2020-21	1	Akgec/wo/inno/20-21/90 Invoice : WIPL/20-21/090 WIPL/20-21/110 WIPL/20-21/143
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### **Alma Connect Alumni Portal**

Alma Connect  19 March 2021 to 18 October 2021	2020-21	1	1880
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