

### 8.3. IT Infrastructure (15)

*(Availability of composite hardware, software, network resources and services required for the existence, operation and management of an institution's IT environment.)*

#### a. Details of the Composite Hardware Computer

S.N	PC Name	Features	Quantity
1	Laptop	Intel Core i3, 4GB RAM, 500GB HDD, 15” LED Screen	65
2	Desktop	Intel Dual Core, 2 GB, 500 GB HDD, 15” Screen Keyboard & Mouse	53
3	HP Slim line CPU	Intel Core i3, 4GB Ram,500GB HDD Keyboard & Mouse	10

S.N	Server Name	Features	Quantity
1	Compaq Presario Branded PC	Dual core, 320GB, 4GB RAM Keyboard & Mouse Ubuntu Server, Print Server.	1
2	UMAX	Ubuntu Server Version, Intel Core i5 processor, 4GB RAM, 2TB Hard disk Keyboard & Mouse	2
3	Dell	Xeon Processor, Server 8 GB RAM, 1 TB HDD	1

#### Multimedia Tools

S.N	Product Name	Quantity
1	Web Camera	12

2	Logitech webcam	9
3	Headphone	20
4	Zebronic Web Camera	6
5	FAX	1

### Printers

SL No.	Model Name	Quantity
1	Canon MF 4320-4350 All in One Printer	2
2	Canon LPB 3300	4
3	HP 1136 Printer	1
4	Canon 2900 Printer	5
5	Canon MG 2577	1
6	Canon IR3025 All in One Printer	1
7	Canon MF244dw	1
8	Canon LBP151DW Printer	1
9	Canon MF 3010	1
10	Canon 161dn	3
11	Canon LBP 6030	2

## **b. Composite Network Resources & Services Switches**

<b>Sl No.</b>	<b>Model Name</b>	<b>Port</b>	<b>Quantity</b>
1	Cisco Catalyst 2950	24	1
2	D-link DES-1024A	24	1
3	D-link DES-1024D	24	5
4	D-Link DES-1008A	8	3
5	Netgear	24	1
6	Edge Core Switch ecs2100	8	1
7	Dell POE	8	3
8	Network Rack	24	6

### **Services:**

#### **1. Firewall PfSense**

### **Modem**

<b>SL. No</b>	<b>Model Name</b>	<b>Service Provider</b>	<b>Quantity</b>	<b>Bandwidth</b>
1	MARO TEK ECAT-04R	Vodafone lease line (1:1)	1	20 Mbps(1:1)
2	ACT Router	ACT ILL	1	5Mbps
3	ACT Router	ACT Broadband	1	1000Mbps
4	BSNL Fibber	BSNL Broadband Fiber 5 Line	5	80 Mbps

**Biometric**

SL No.	Model Name	Quantity
1	Biometric System Identix	1

**Wireless Routers & Access Point**

SI No.	Model Name	Quantity
1	TP-Link 3 Antenna	5
2	TP-Link 2 Antenna	5
3	TP-Link EAP110	2
4	Cisco	2
5	Grand stream Wi-Fi Access Point	2
6	TP Link WIFI Access Point	2
7	Cisco Wi-Fi Access Point	1
8	Grand stream Wi-Fi Access Point	4
9	UNIMAX-305-AC Wi-Fi - Access point	3
10	US-8M POE 8 port POE switch	1

**UPS**

SI No.	Name	Quantity
1	APC	17
2	Cyber Power	2

**Projector**

Brand	Model Name	Quantity	Features
Sony - LED	Sony LED- XGA VPL-DX120	3	VGA, HDMI,AVI
Sony – LCD	Sony – LCD- SVGA VPL-ES5	3	VGA,AVI
Benq – LED	Benq – LED- LED	1	VGA,AVI
Sharp	Sharp- DLP X305	1	VGA,AVI
Sony -LCD	Sony -LCD- SVGA VPLES4	1	VGA,AVI
Acer – LED	Epsone	6	VGA, AVI
Dell	Dell	2	VGA, AVI

**Interactive Board**

SL NO	DETAILS	NO OF UNITS	TOTAL UNITS
1	Cybernetyx EyeRIS Manually calibrating an ordinary interactive surface can be quite painful andtime consuming.	9	9

### c. Composite software

SL NO	Name of the Software	Function
1	Microsoft licence (OVS-ES)	365 MS Office
2	LINUX-FEDORA OPERATING SYSTEM	OPERATING SYSTEM FREE SOFTWARE
3	MYSQL SERVER VERSION 5.1	DATABASE FREE SOFTWARE
4	Cent OS 7	OPERATING SYSTEM FREE SOFTWARE
5	Edubuntu	OPERATING SYSTEM FREE SOFTWARE
6	OPEN OFFICE	OPERATING SYSTEM FREE SOFTWARE
7	Ubuntu	OPERATING SYSTEM FREE SOFTWARE
8	Windows 10	OPERATING SYSTEM
9	ERP DHI	Lesson Plan, Attendance, Internal Assessment, Student Feedback, Timetable, Notice Board
10	Moodle	Online Learning Management System for Sharing Lecture videos, Question Paper, Time Table, Quiz and Assignment
11	Digital Academics App	Digital Learning, Online Classes
12	ADOBE READER VER .9.3.2	TO VIEW ADOBE DOCUMENTS
13	ADORE PLASH PLAYER VER 10.0.45.2	TO VIEW FLASH WEB PAGES

SL NO	Name of the Software	Function
14	ADOBE SHOCKWAVE PLAYER 11.5.6.606	TO PLAY SHOCKWAVE FILE IN WEBSITE
15	WINRAR POCKET PC VER .3.93	TO OPEN ZIP FILE
16	WINZIP VER 145	To COMPRESS & EXTRACT ZIPFILES
17	TEXTPAD VER 5.3.1	TO PERFORM HIGHER LEVEL OF OPERATION WITH TEST
18	JAVASDK VER 1.6.02	TO RUN JRE FILE TO DEVELOP JAVA APP
19	APACHE TOMCAT VER 6.0.26	TO REPLICATE WNK OF WEBSITE
20	ECLIPSE FPR PHP DEVELOPERS	TO DEVELOP PHP LOADED COOLING
21	MOZILLA FIREFOX	FOR BROWSING
22	GOOGLE CHROME	FOR BROWSING
23	FILEZILLA FTP CLIENT VER 3.3.2.1	TO PERFORM FTP OPERATION
24	MUVEE REVEAL SEAGATE EDITION	TO OPERATE ON MOVIE CLIP
25	GOOGLE TALK MESSENGER	TO INTERACT BETWEEN SELF MEMBERS
26	VLC MEDIA PLAYER VER 1.0.1	TO PLAY AUDIO & VIDEO
27	BIT COMET VER 1.20	TO DOWNLOAD APP USING TORRENTS

SL NO	Name of the Software	Function
28	MAP 1 LAB MAIL MERGE TOOLKIT VER 2.5.6	TO SENT PERSONALIZE MAIL
29	APPLE QUICKTIME VER - 7	TO RUN QUICK TIME FILES
30	Open Office	TO CREATE POWERPOINT, & WORKSHEET
31	PKASAVERSION 3.6	TO UPLOAD SHARE & VIEW PHOTOGRAPHS
32	Opera	FOR BROWSING
33	WINDOWS MOVIE MAKER VERSION	TO OPERATE MOVIE CLIP
34	SMS COUNTRY EXCEL PLUGIN	TO SEND EXCEL SMS
35	GIMP - 2.8.2	PHOTOSHOP SOFTWARE TO PERFORM IMAGE OPER
36	PHP VER 5.2.5	TO OPERATE PHP CODE
37	Notepad ++	A Code Editor
38	NewgenLib	Library Automation Software
39	Ginger	Language Software
40	R Studio	Data Analytics
41	Evolis Printer Software	ID Card Printing
42	MyGate	Visiting Software



SL NO	Name of the Software	Function
43	ZOOM	Online Classes, Industry Interaction and Meeting
44	Google Meet	Online Classes and Meeting
45	Plagiarism	plagiarism checker
46	Coll Poll ERP	ERP CollPoll is a web and mobile based AI-powered campus automation, digital learning & analytics platform to address the rising complexity, competition & digital compliance
47	Tally	Accounting
48	ISBR App	Digital Academy online Learning App

## Internet Connection

1. **Vodafone leased line: 20Mbps (1:1)**
2. **ACT Lease line 5 Mbps and ACT Broadband 1000Mbps Connection through fiber**
3. **BSNL Broadband: 100 Mbps – 5 Connection**

The internet lines are connected with pfSense firewall and applied multiple rules like load balancing.

## 4. Operation and management of IT environment

Supporting staff are highly qualified. They are proficient in helping Principal & other staff with administrative work and also like admission conduction of tests. Librarian is well skilled to take care of the accession of the Library, has the competence Infrastructure – All networking functions for internal and external IT communications (router, hubs, firewalls, DNS servers, file servers) Monitoring network health and alerting network personnel when an issue occurs with network resources (including storage, services such as email or file servers) PC provisioning – Acquisition, configuration, management, break/fix, applications installation &