



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING

SEMESTER 1/20222023

SECR1213– NETWORK COMMUNICATION

SECTION 04

TASK 4 PROJECT

LECTURER: MS. RASHIDAH KADIR

GROUP NO: 2

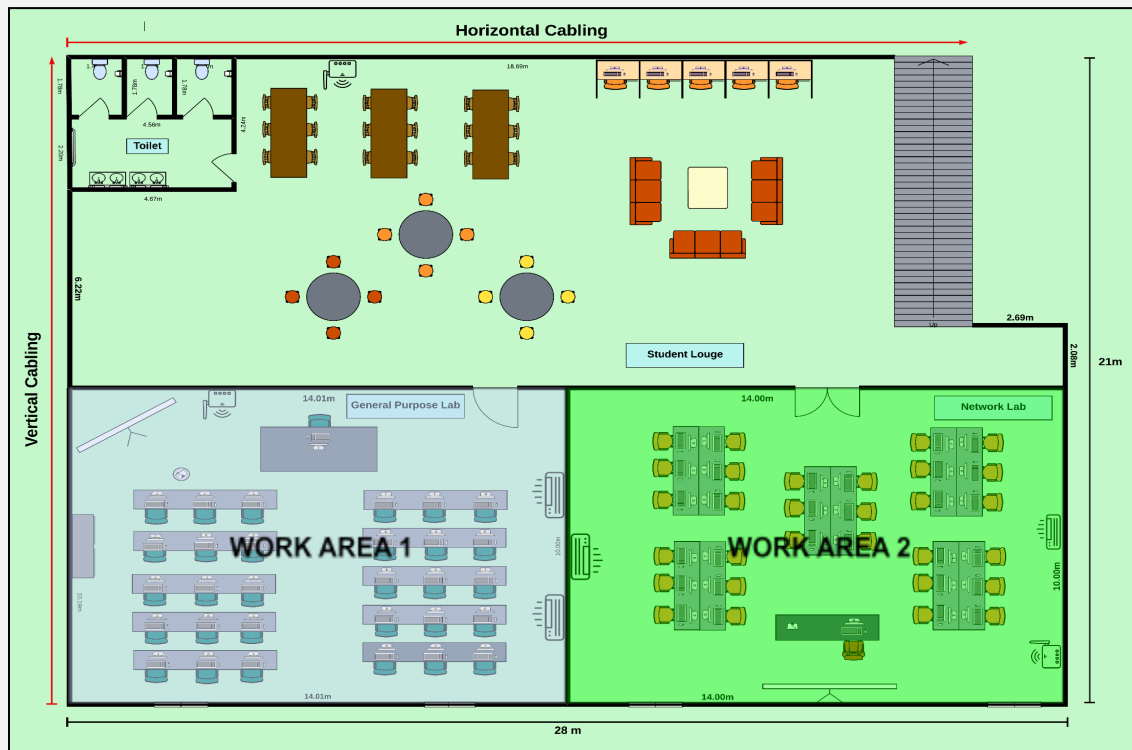
NAME	MATRIC ID
MUHAMMAD NUR SOLIHIN BIN MALIK RADZUAN	A21EC0089
MUHAMAD AMSYAR BIN IBRAHIM	A21EC0058
NORAIN BINTI MOHD SULAIMAN	A21EC0106
SARAH FARHANA BINTI SALLEH	A21EC0226

TABLE OF CONTENTS

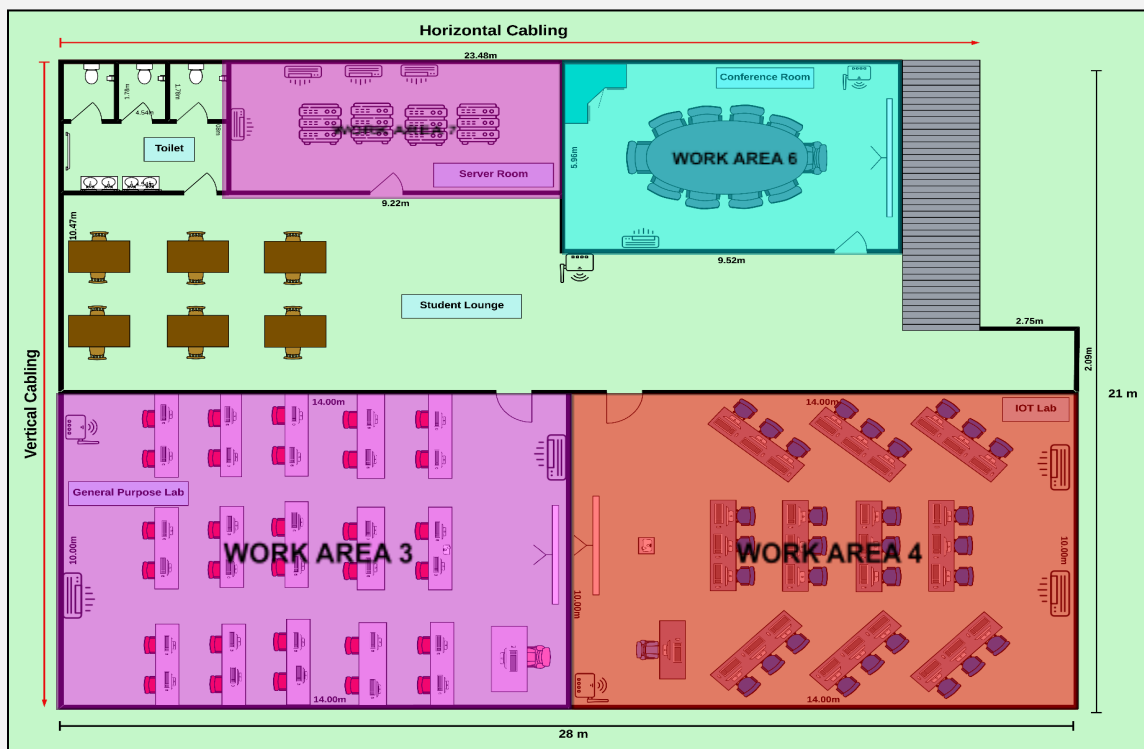
1.0 IDENTIFYING WORK AREAS	3
1.1 Ground Floor	3
1.2 First Floor	3
2.0 DETERMINE CONNECTIONS, PATCH CORD AND SWITCH PORT	4
2.1 Ground Floor	4
2.2 First Floor	4
3.0 OVERALL NETWORK DIAGRAM	5
4.0 IDENTIFY CABLE AND TYPE	6
4.1 Cable Length	6
APPENDIX	8
REFERENCES	10

1.0 IDENTIFYING WORK AREAS

1.1 Ground Floor

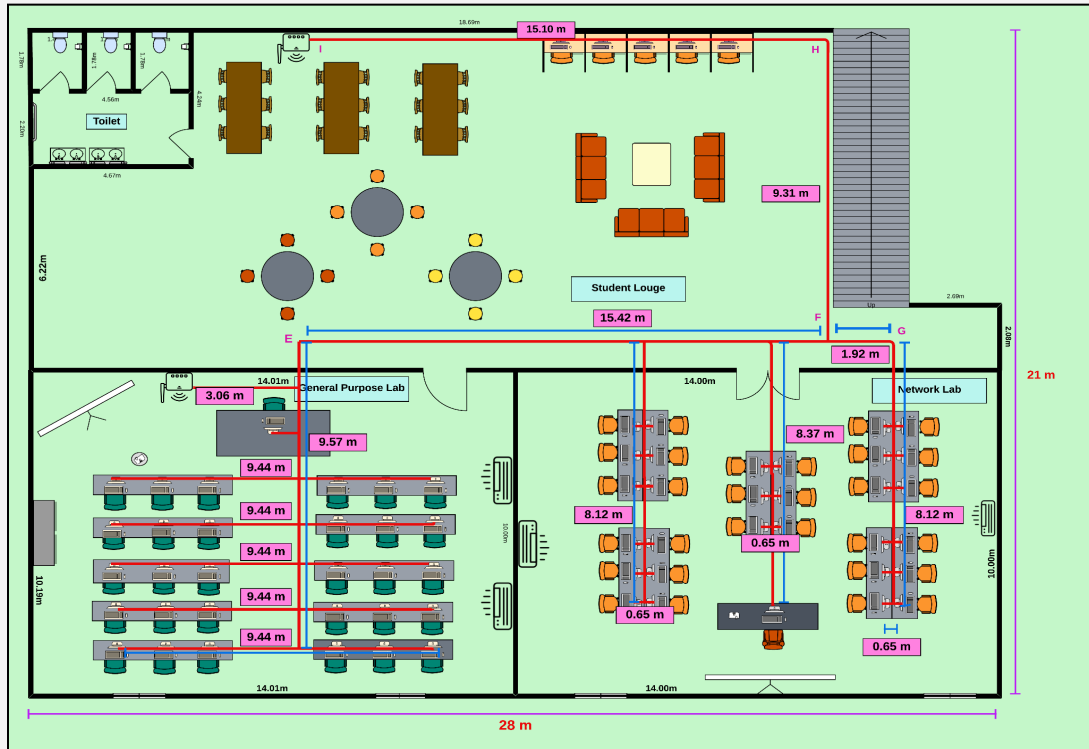


1.2 First Floor

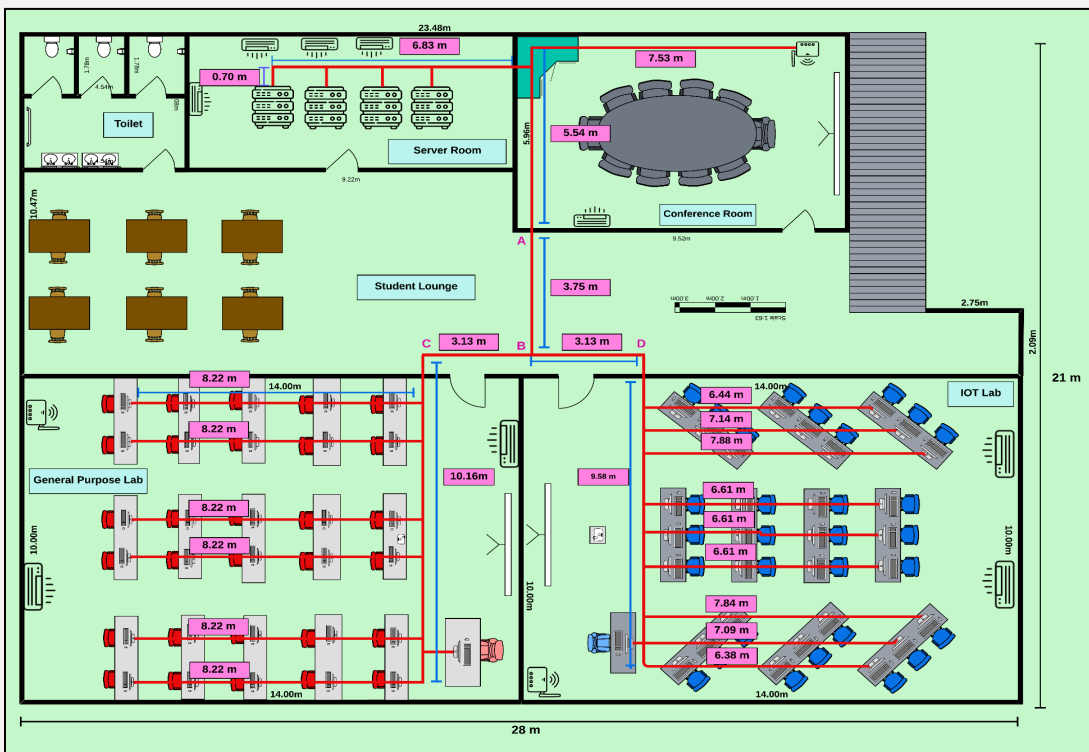


2.0 DETERMINE CONNECTIONS, PATCH CORD AND SWITCH PORT

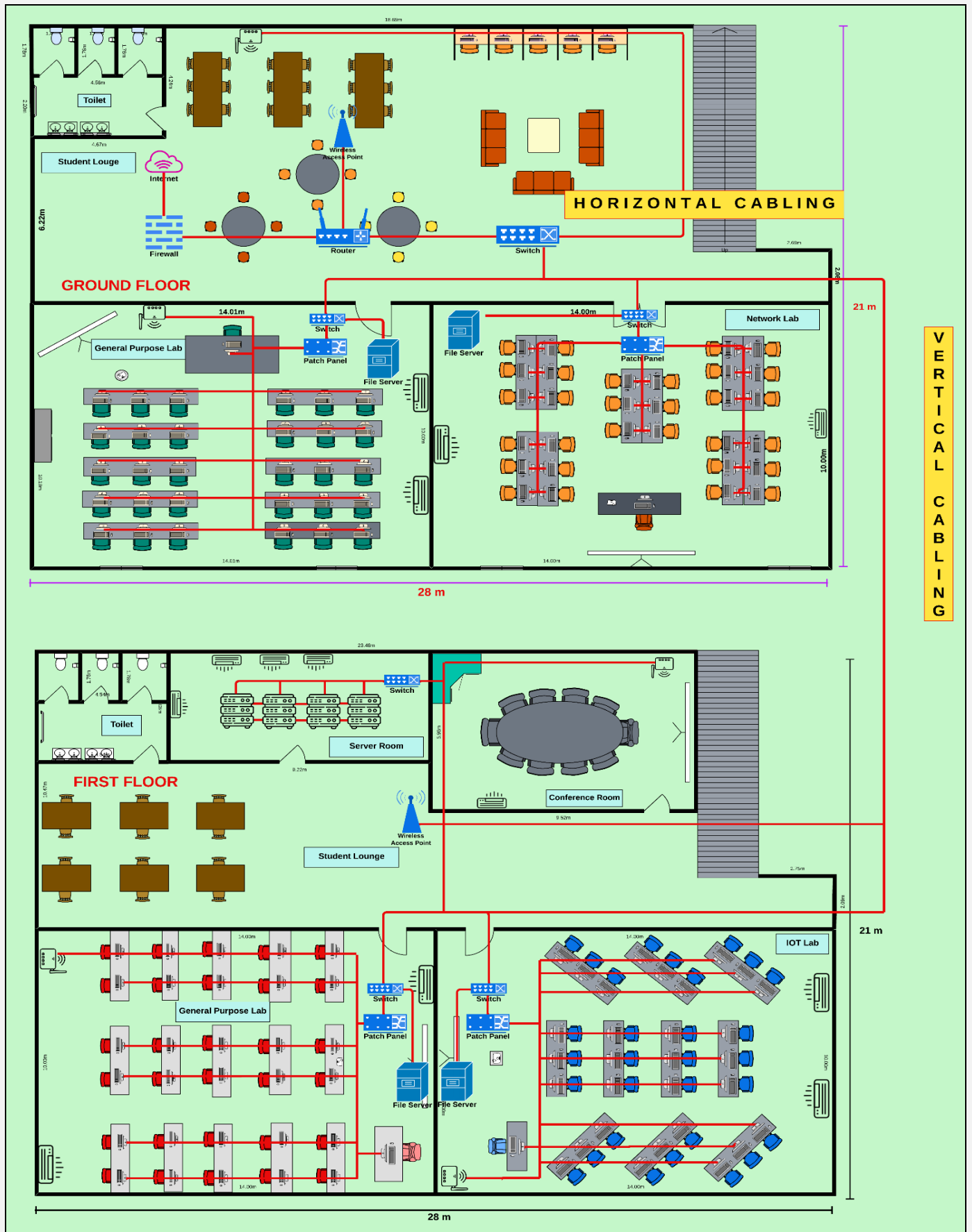
2.1 Ground Floor



2.2 First Floor



3.0 OVERALL NETWORK DIAGRAM



4.0 IDENTIFY CABLE AND TYPE

4.1 Cable Length

Description	Cable Type	Length (m)
Ground Floor		
General Purpose Lab	CAT6A	59.83
Network Lab	CAT6A	34.36
E to F	CAT6A	15.42
F to G	CAT6A	1.92
F to H	CAT6A	9.31
H to I	CAT6A	15.10
Peripheral Connection	CAT6A	80.0
Total Length		215.94
First Floor		
General Purpose Lab	CAT6A	59.48
IoT Lab	CAT6A	72.18
Conference Room	CAT6A	13.07
Server Room	CAT6A	9.63
A to B	CAT6A	3.75
B to D	CAT6A	3.13
B to C	CAT6A	3.13
Peripheral Connection	CAT6A	80.0
Total Length		244.37
Horizontal Cabling		240.46
Vertical Cabling	Fibre Optic Cable	72.97
Total Length		313.43
TOTAL LENGTH OF CABLE USED		773.74

APPENDIX

DATE : 21TH DECEMBER 2022

TIME : 8.30 PM - 10.30 PM

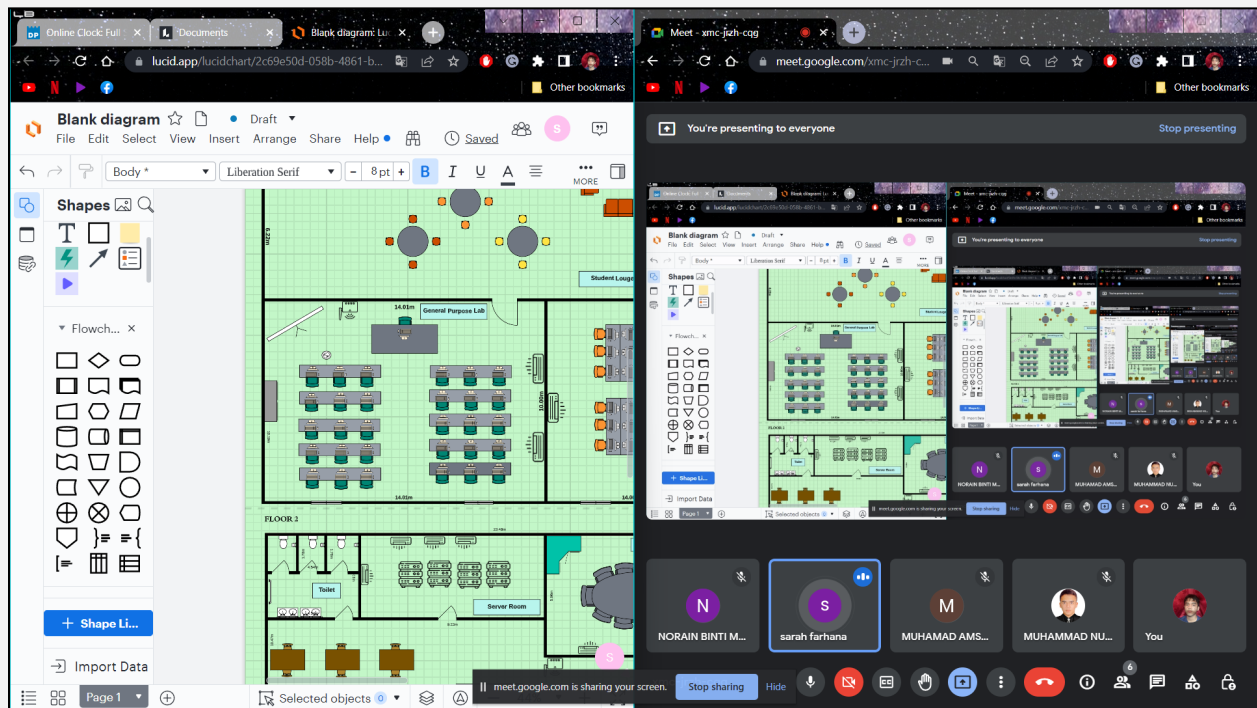
LOCATION : GOOGLE MEET

ATTENDANCES

1. MUHAMMAD NUR SOLIHIN BIN MALIK RADZUAN	A21EC0089
2. MUHAMAD AMSYAR BIN IBRAHIM	A21EC0058
3. SARAH FARHANA BINTI SALLEH	A21EC0226
4. NORAIN BINTI MOHD SULAIMAN	A21EC0106

OBJECTIVES

- Divide each of the group members with a specific task that is needed to be done
- Understanding the needs of the job
- Identify which are the work areas in our network building
- Identify what type of cabling that needs to be used in order to connect all the devices in the building.



DATE : 22TH DECEMBER 2022

TIME : 8.30 PM - 10.30 PM

LOCATION : GOOGLE MEET

ATTENDANCES

- | | |
|---|-----------|
| 1. MUHAMMAD NUR SOLIHIN BIN MALIK RADZUAN | A21EC0089 |
| 2. MUHAMAD AMSYAR BIN IBRAHIM | A21EC0058 |
| 3. SARAH FARHANA BINTI SALLEH | A21EC0226 |
| 4. NORAIN BINTI MOHD SULAIMAN | A21EC0106 |

OBJECTIVES

- Implement the cabling on our network building
- Measure the length of the cable that we used in order to connect devices in our building
- Make the report for the task 4

The image shows two side-by-side screenshots. The left screenshot is a Google Docs document titled 'TASK 4 NETCOM PROJECT'. It contains a section '4.0 IDENTIFY CABLE AND TYPE' with a sub-section '4.1 Cable Length'. Below this is a table with three columns: 'Description', 'Cable Type', and 'Length(m)'. The table is divided into two sections: 'Ground Floor' and 'First Floor'. The 'Ground Floor' section lists: General Purpose Lab (CAT6A, 59.48), IoT Lab (CAT6A, 72.18), Conference Room (CAT6A, 13.07), Server Room (CAT6A, 9.63), A to B (CAT6A, 3.75), B to D (CAT6A, 3.13), B to C (CAT6A, 3.13), and Peripheral Connection. The 'First Floor' section is currently empty. The right screenshot is a Lucidchart diagram showing a network floor plan. It includes various network devices like switches, routers, and servers, connected by lines representing network cables. The diagram is titled 'Blank diagram: Lucidchart' and shows a complex network topology with multiple rooms and interconnected devices.

Description	Cable Type	Length(m)
Ground Floor		
General Purpose Lab	CAT6A	59.48
IoT Lab	CAT6A	72.18
Conference Room	CAT6A	13.07
Server Room	CAT6A	9.63
A to B	CAT6A	3.75
B to D	CAT6A	3.13
B to C	CAT6A	3.13
Peripheral Connection		
First Floor		

REFERENCES

1. Ramkumar, M. and Kurithuga, T. *The role of integrated structured cabling system ... - ICTACT journals, The role of the integrated structured cabling system*. Available at: https://ictactjournals.in/paper/IJCT_Vol_13_Iss_1_Paper_7_2635_2639.pdf (Accessed: December 20, 2022).
2. R Mueller *Modern cable TV network, the Ideal Platform for pcs, Modern cable network, the ideal platform for Pcs*. Contemporary Security Policy, 2021 - Taylor & Francis. Available at: <https://ieeexplore.ieee.org/document/293009/> (Accessed: December 21, 2022).
3. *Computer Lab Connectivity Overview*. C2G. (n.d.). Retrieved December 23, 2022, from <https://www.cablestogo.com/learning/library/connected-classroom/computer-lab-connectivity>