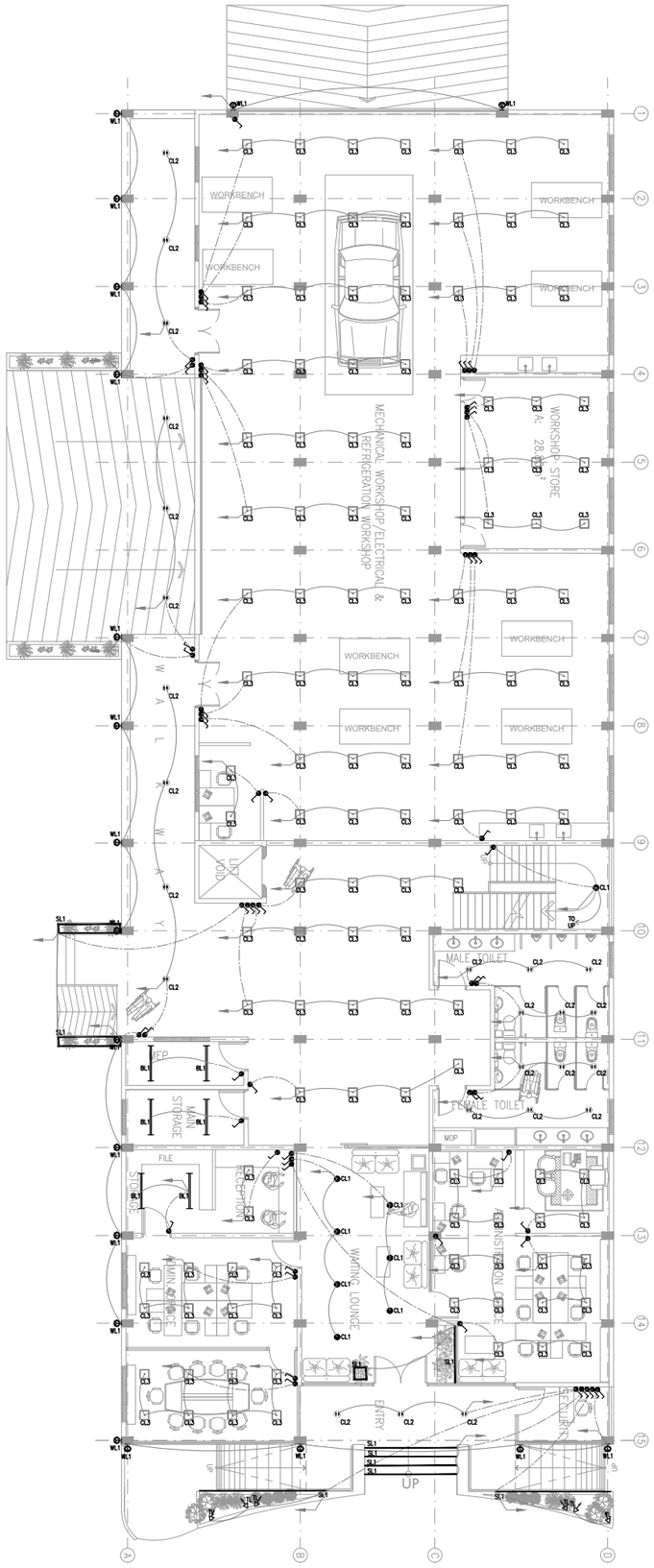


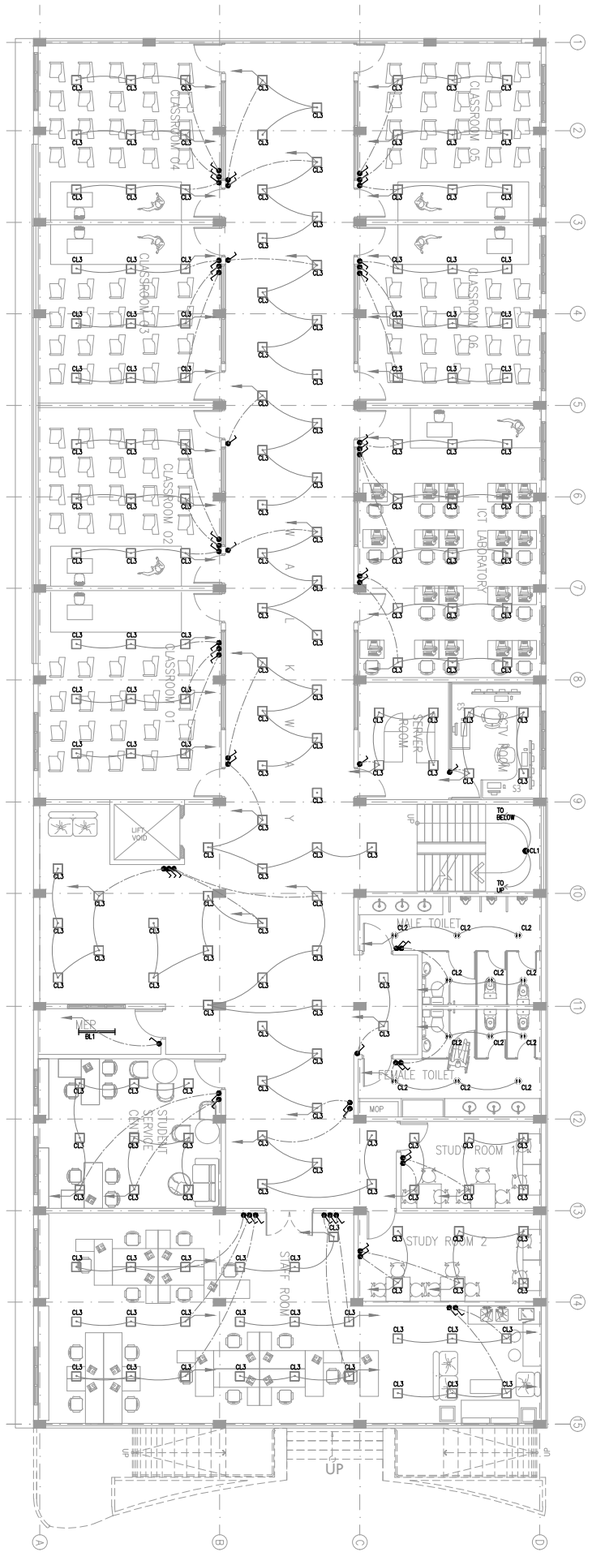

## LIGTHING LEGEND

| SYMBOL | CODE | DECRIPTION |
|---|---|---|
| | CL1 | CEILING RECESSED LED DOWN LIGHT WITH DIFFUSER (15W) |
| | CL2 | CEILING RECESSED LED DOWN LIGHT WITH DIFFUSER (10W) |
| | CL3 | 300X300mm LED CEILING MOUNTED LIGHT (50W) |
| | SL1 | LED WARM STRIP LIGHT (15W) |
| | SL2 | LED STARE STRIP LIGHT (5W) |
| | SL3 | LED DECLARATIVE STRIP LIGHT (10W) |
| | TL | TREE UP LED SPIKE LIGHT (20W) |
| | WL1 | LED WALL MOUNTED LIGHT (20W) |
| | WL2 | LED WALL MOUNTED DECORATIVE LIGHT (10W) |
| | PL1 | PENDANT LED DECORATIVE LIGHT (10W) |
| | BL1 | CEILING MOUNTED DOUBLE BATTEN LED LIGHT (36W) |
| | - | FAN (150W) |
| | 1W1G<br>2W1G | 1 WAY 1 GANG LIGHT SWITCH<br>2 WAY 1 GANG LIGHT SWITCH |
| | 1W2G<br>2W2G | 1 WAY 2 GANG LIGHT SWITCH<br>2 WAY 2 GANG LIGHT SWITCH |
| | 1W3G | 1 WAY 3 GANG LIGHT SWITCH |
| | EF | EXHAUST FAN |
| | MDB | POWER MAIN DISTRIBUTION BOARD |
| | SDB | POWER SUB DISTRIBUTION BOARD |

# GROUND FLOOR LIGHTING PLAN

SCALE 1:200

0m 5m

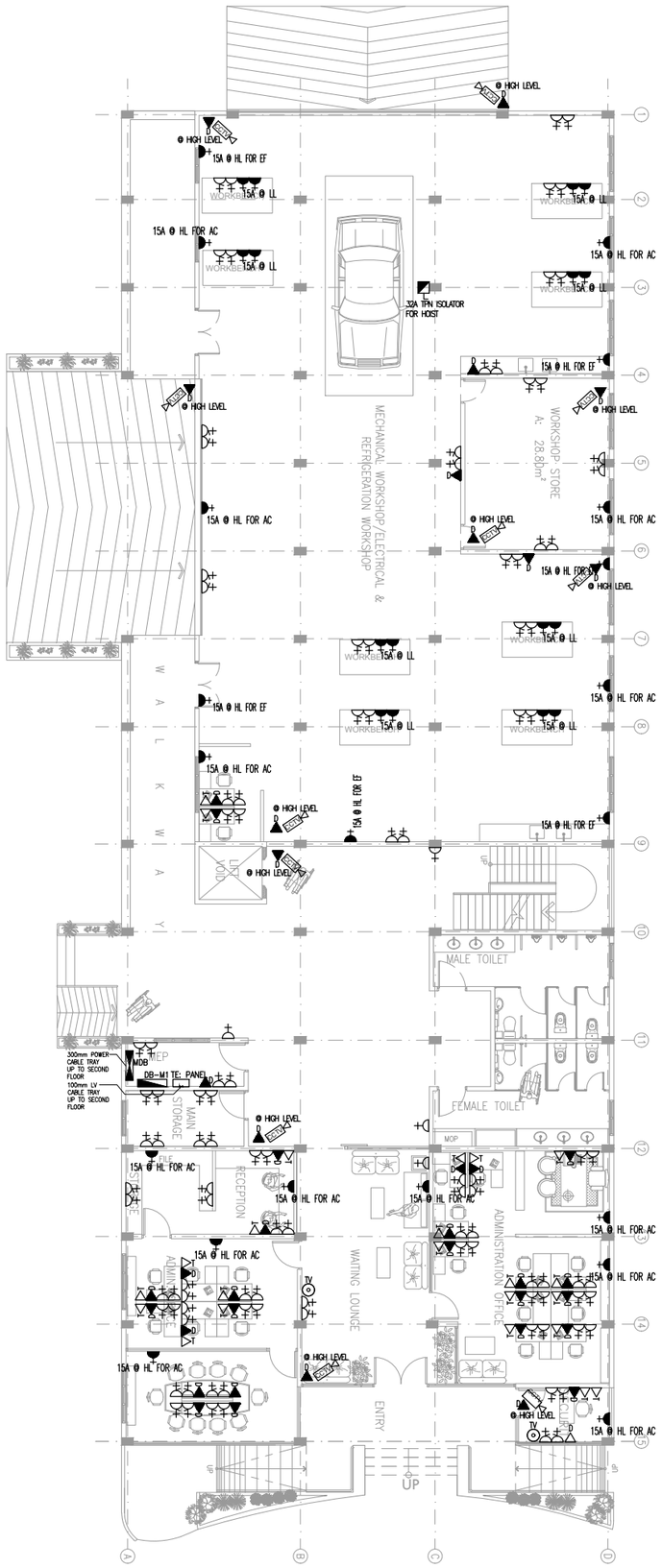



| LIGTHING LEGEND | | |
|---|---|---|
| SYMBOL | CODE | DECRIPTION |
| | CL1 | CEILING RECESSED LED DOWN LIGHT WITH DIFFUSER (15W) |
| | CL2 | CEILING RECESSED LED DOWN LIGHT WITH DIFFUSER (10W) |
| | CL3 | 300X300mm LED CEILING MOUNTED LIGHT (50W) |
| | SL1 | LED WARM STRIP LIGHT (15W) |
| | SL2 | LED STARE STRIP LIGHT (5W) |
| | SL3 | LED DECLARATIVE STRIP LIGHT (10W) |
| | TL | TREE UP LED SPIKE LIGHT (20W) |
| | WL1 | LED WALL MOUNTED LIGHT (20W) |
| | WL2 | LED WALL MOUNTED DECORATIVE LIGHT (10W) |
| | PL1 | PENDANT LED DECORATIVE LIGHT (10W) |
| | BL1 | CEILING MOUNTED DOUBLE BATTEN LED LIGHT (36W) |
| | - | FAN (150W) |
| | 1W1G<br>2W1G | 1 WAY 1 GANG LIGHT SWITCH<br>2 WAY 1 GANG LIGHT SWITCH |
| | 1W2G<br>2W2G | 1 WAY 2 GANG LIGHT SWITCH<br>2 WAY 2 GANG LIGHT SWITCH |
| | 1W3G | 1 WAY 3 GANG LIGHT SWITCH |
| | EF | EXHAUST FAN |
| | MDB | POWER MAIN DISTRIBUTION BOARD |
| | SDB | POWER SUB DISTRIBUTION BOARD |

# FIRST FLOOR LIGHTING PLAN

SCALE 1:200

0m 5m

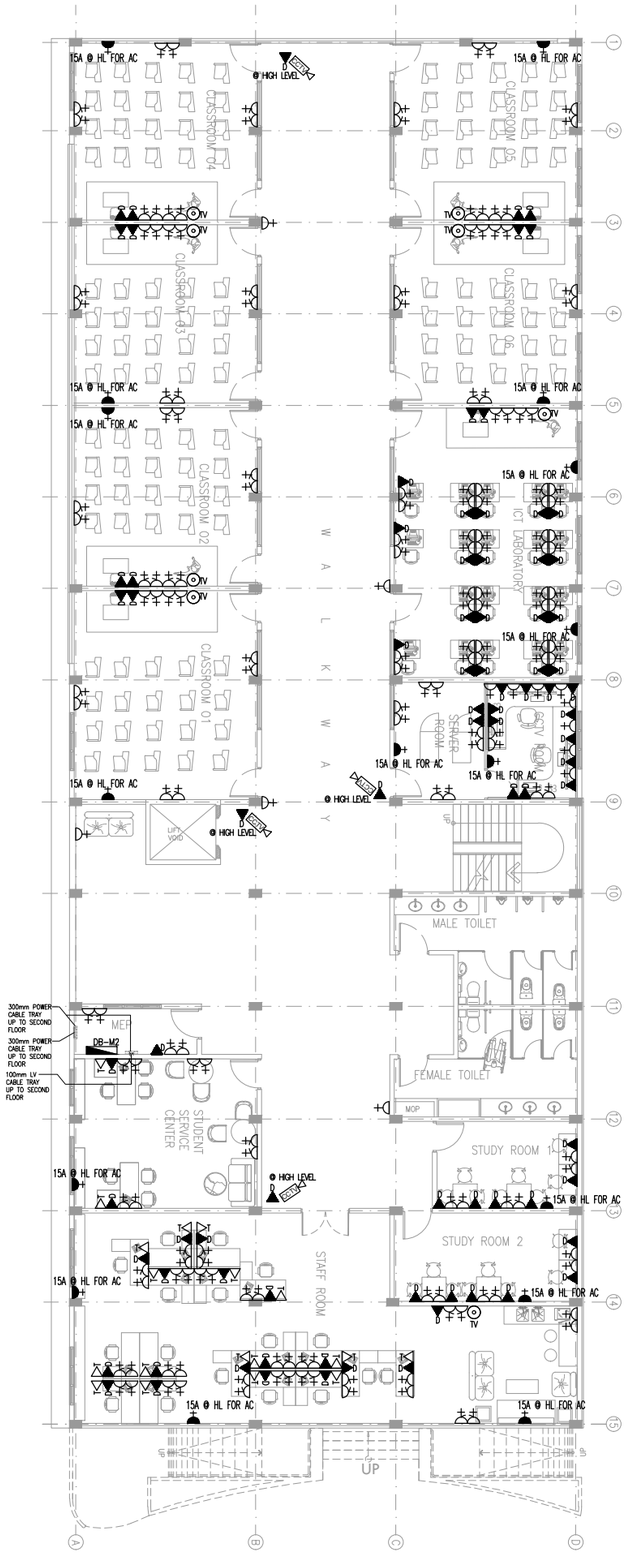



| SYMBOL | DESCRIPTION |
|---|---|
| TE: PANEL | MAIN TELECOMMUNICATION PANEL |
| TJB | TELEPHONE JUNCTION BOX |
| | PVC CONDUIT (SIZE IS MENTIONED ON LAYOUT) |
| T | TELEPHONE SOCKET OUTLET |
| D | DATA SOCKET OUTLET |
| TV | TV SOCKET OUTLET |
| AU | AUDIO OUT |
| CCTV | VIDEO SURVEILLANCE CAMERA |
| | SUB DB |
| | MAIN DB |
| | SINGLE SWITCHED SOCKET OUTLET |
| | TWIN SWITCHED SOCKET OUTLET |
| | 15A SINGLE SWITCHED SOCKET OUTLET HIGH LEVEL |
| | SPN ISOLATOR (RATING IS MENTIONED ON LAYOUT) |
| | TPN ISOLATOR (RATING IS MENTIONED ON LAYOUT) |

# GROUND FLOOR POWER, DATA, TEL, TV AND CCTV PLAN

SCALE 1:100

0m 5m

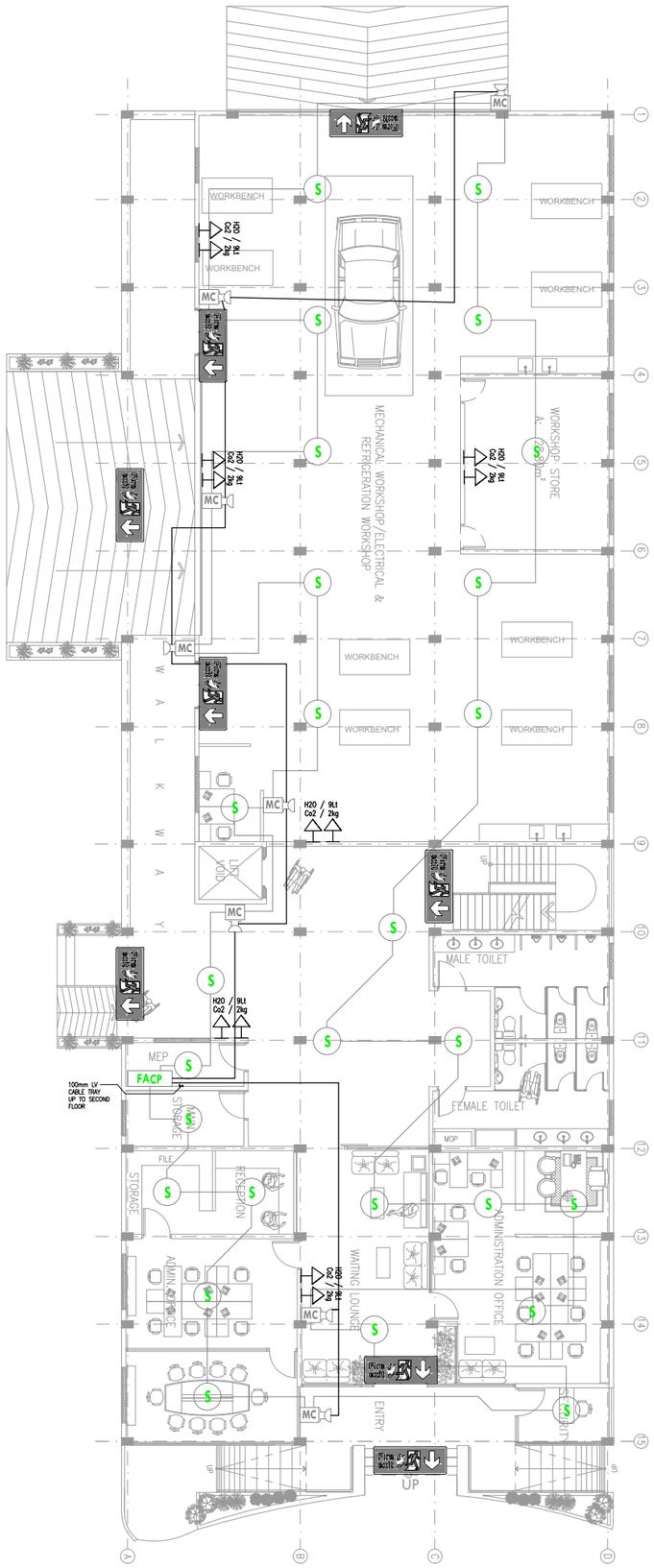



| SYMBOL | DESCRIPTION |
|---|---|
| TE: PANEL | MAIN TELECOMMUNICATION PANEL |
| TJB | TELEPHONE JUNCTION BOX |
| | PVC CONDUIT (SIZE IS MENTIONED ON LAYOUT) |
| T | TELEPHONE SOCKET OUTLET |
| D | DATA SOCKET OUTLET |
| TV | TV SOCKET OUTLET |
| AU | AUDIO OUT |
| CCTV | VIDEO SURVEILLANCE CAMERA |
| | SUB DB |
| | MAIN DB |
| | SINGLE SWITCHED SOCKET OUTLET |
| | TWIN SWITCHED SOCKET OUTLET |
| | 15A SINGLE SWITCHED SOCKET OUTLET HIGH LEVEL |
| | SPN ISOLATOR (RATING IS MENTIONED ON LAYOUT) |
| | TPN ISOLATOR (RATING IS MENTIONED ON LAYOUT) |

# GROUND FLOOR POWER, DATA, TEL, TV AND CCTV PLAN

SCALE 1:200

0m 5m

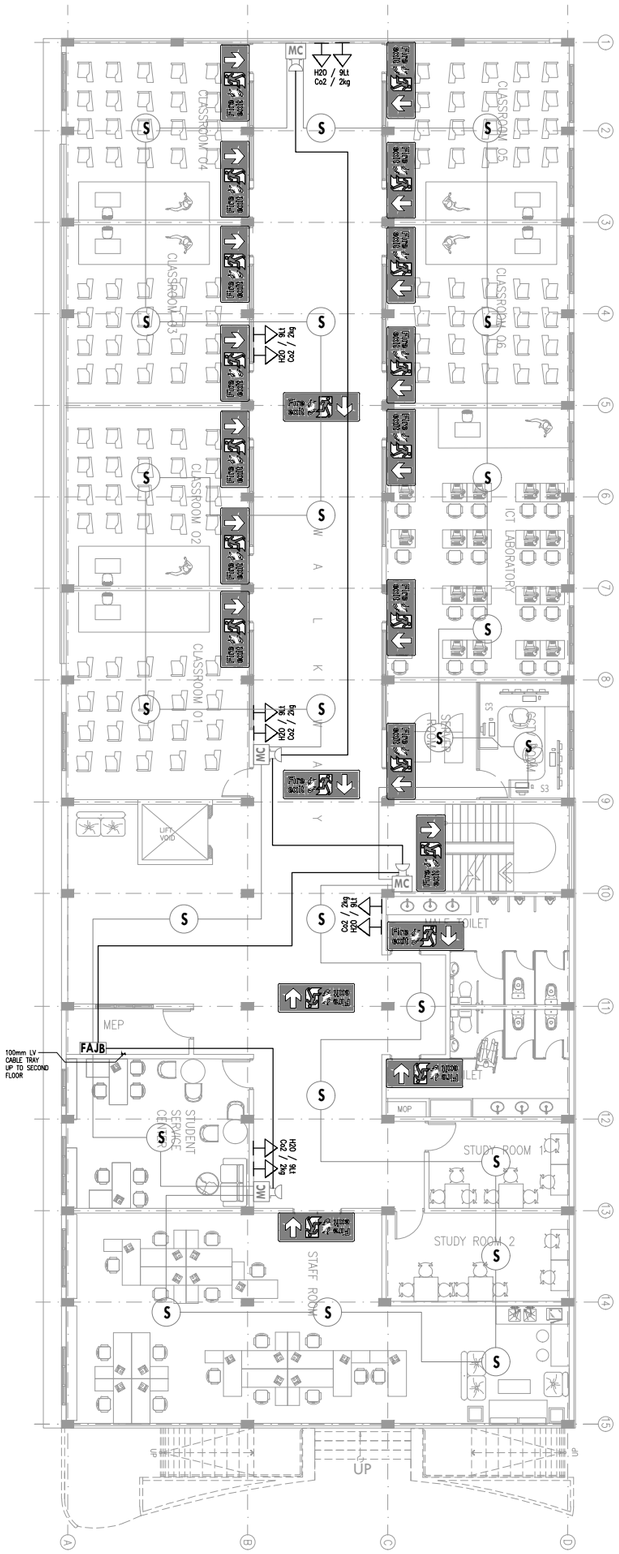



| LEGEND | |
|---|---|
| FB | FIRE BLANKET |
| Co2 / 2kg | Co2 / 2kg |
| H2O / 9Lt | H2O / 9Lt |
| DCPO / 9Kg | DRY CHEMICAL POWDER / 9Lt |
| | FIRE EXIT SINAGE |
| | FIRE ALARM |
| MC | MANUAL CALL POINT |
| S | SMOCK DETECTOR |
| HD | HEAT DETECTOR |
| FACP | FIRE ALARM CONTROL PANEL |

# GROUND FLOOR FIRE SAFETY PLAN

SCALE 1:200

0m 5m

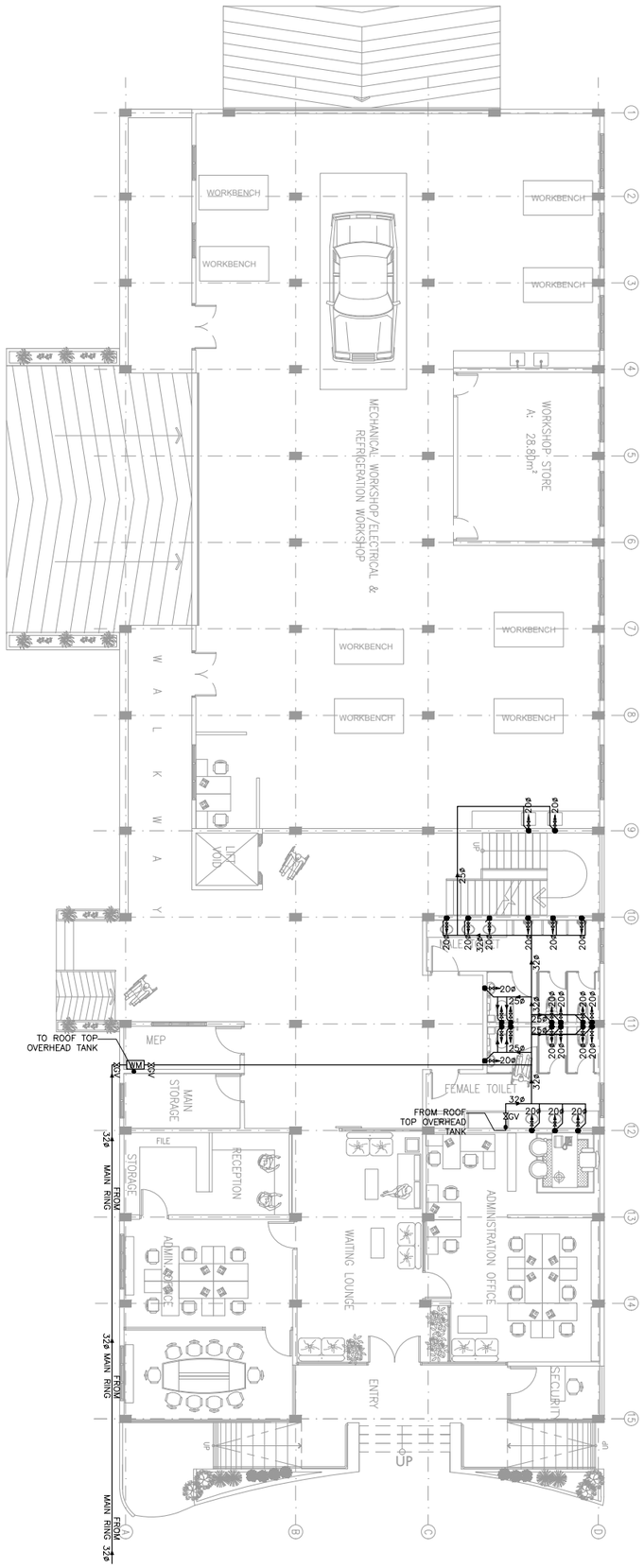



| LEGEND | |
|---|---|
| FB | FIRE BLANKET |
| Co2 / 2kg | Co2 / 2kg |
| H2O / 9Lt | H2O / 9Lt |
| DCPO / 9Kg | DRY CHEMICAL POWDER / 9Lt |
| | FIRE EXIT SINAGE |
| | FIRE ALARM |
| MC | MANUAL CALL POINT |
| S | SMOCK DETECTOR |
| HD | HEAT DETECTOR |
| FACP | FIRE ALARM CONTROL PANEL |

# FIRST FLOOR FIRE SAFETY PLAN

SCALE 1:200

0m 5m

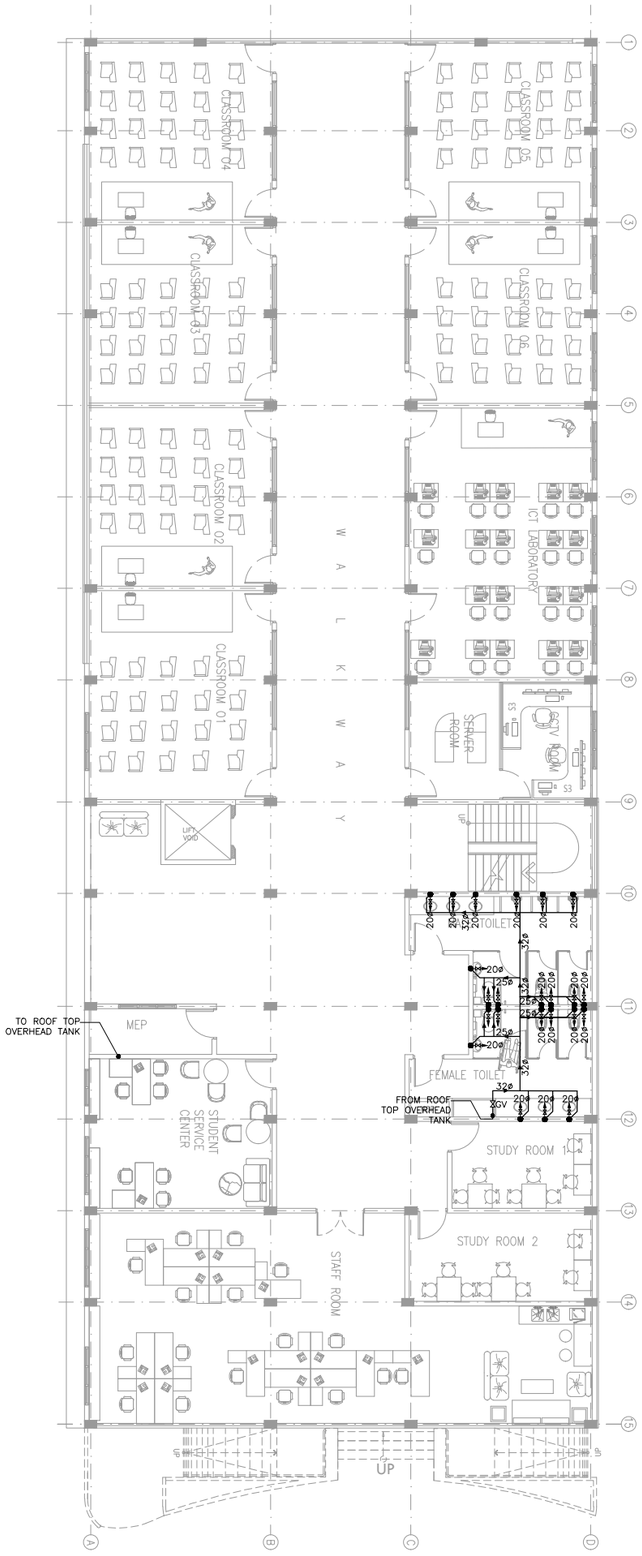



| SYMBOL | DESCRIPTION |
|---|---|
| | COLD WATER OUT WITH ANGLE VALVE |
| | COLD WATER PPR PIPE |
| WM | WATER METER |
| GV | GATE VALVE |

# GROUND FLOOR WATER SUPPLY PLAN

SCALE 1:100

0m 5m

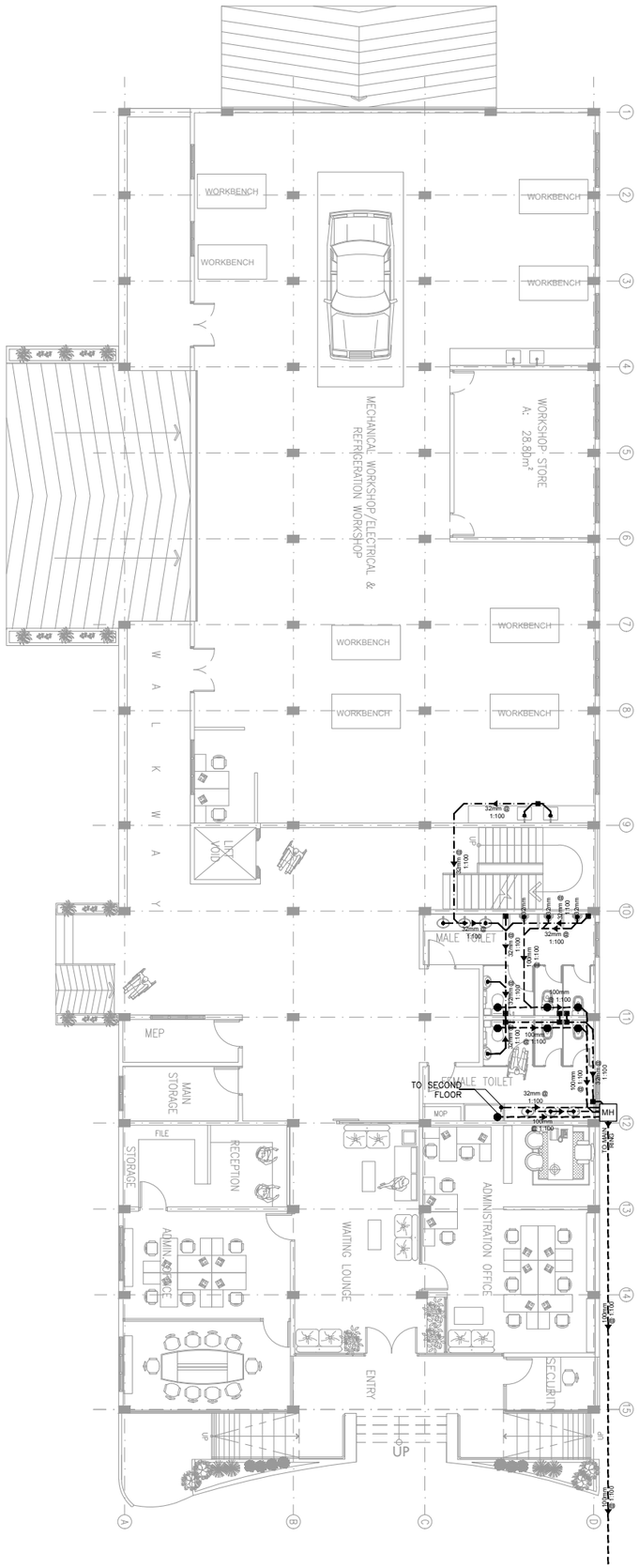



| SYMBOL | DESCRIPTION |
|---|---|
| | COLD WATER OUT WITH ANGLE VALVE |
| | COLD WATER PPR PIPE |
| WM | WATER METER |
| GV | GATE VALVE |

# FIRST FLOOR WATER SUPPLY PLAN

SCALE 1:200

0m 5m

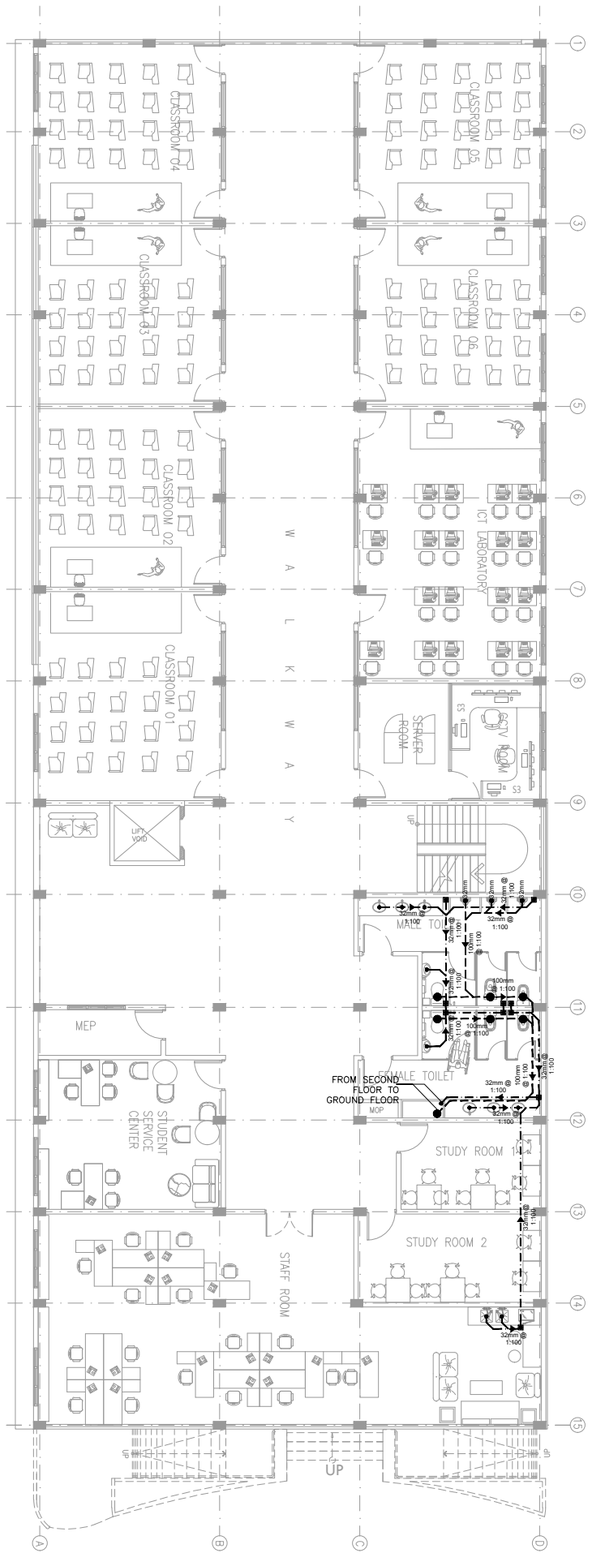



| SYMBOL | DESCRIPTION |
|---|---|
| ● | DRAINAGE OUTLET |
| • | WASTE OUTLET |
| ◙ | FLOOR DRAIN |
| —·▶·— | WASTE WATER PIPE – 32ø @1:100 |
| --▶---- | DRAINAGE PIPE – 100ø @1:100 |
| MH | MAN HOLE |
| GT | GREASE TRAP |

# GROUND FLOOR WASTE WATER AND DRAINAGE PLAN

SCALE 1:200

0m 5m

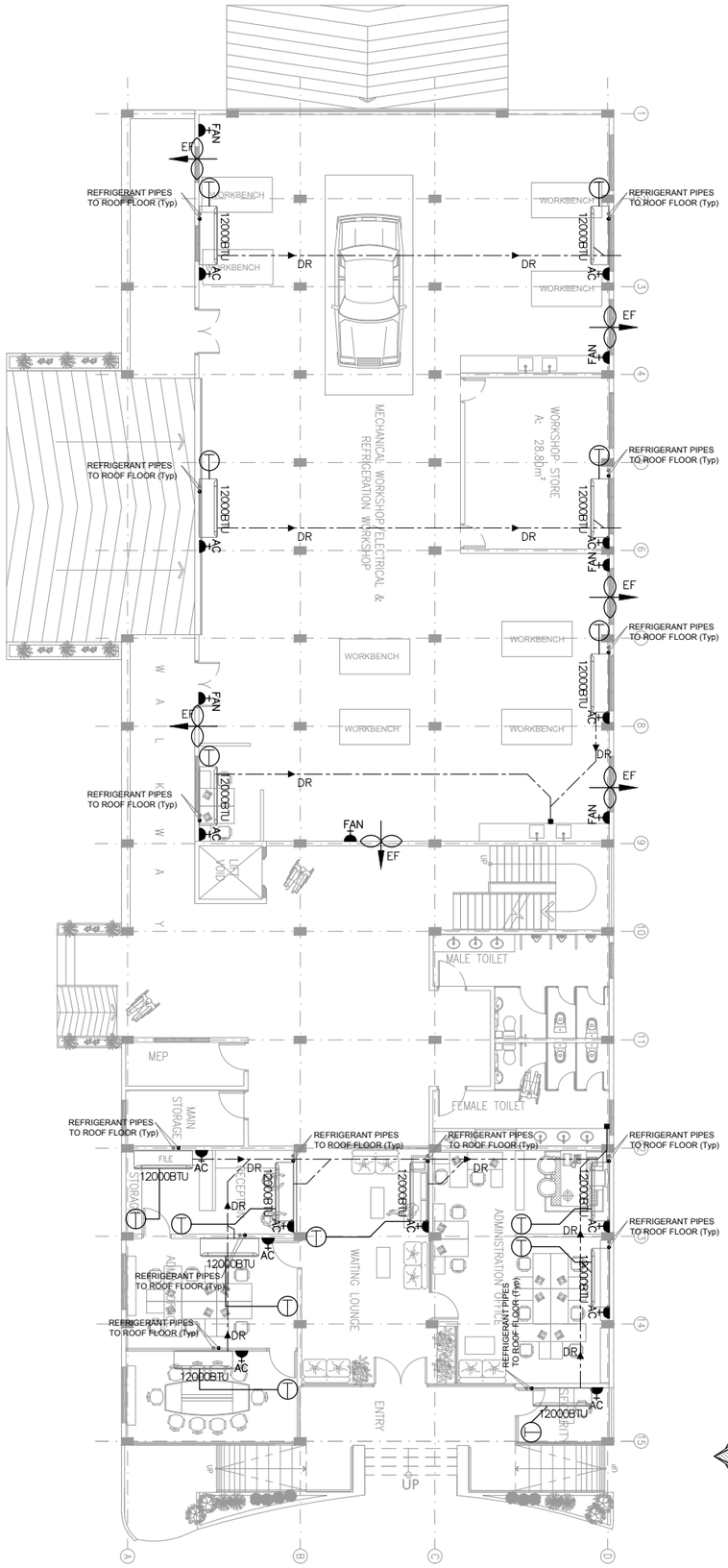



| SYMBOL | DESCRIPTION |
|---|---|
| ● | DRAINAGE OUTLET |
| • | WASTE OUTLET |
| ◘ | FLOOR DRAIN |
| --→--- | WASTE WATER PIPE – 32ø @1:100 |
| --→---- | DRAINAGE PIPE – 100ø @1:100 |
| MH | MAN HOLE |
| GT | GREASE TRAP |

# FIRST FLOOR WASTE WATER AND DRAINAGE PLAN

SCALE 1:200

0m 5m

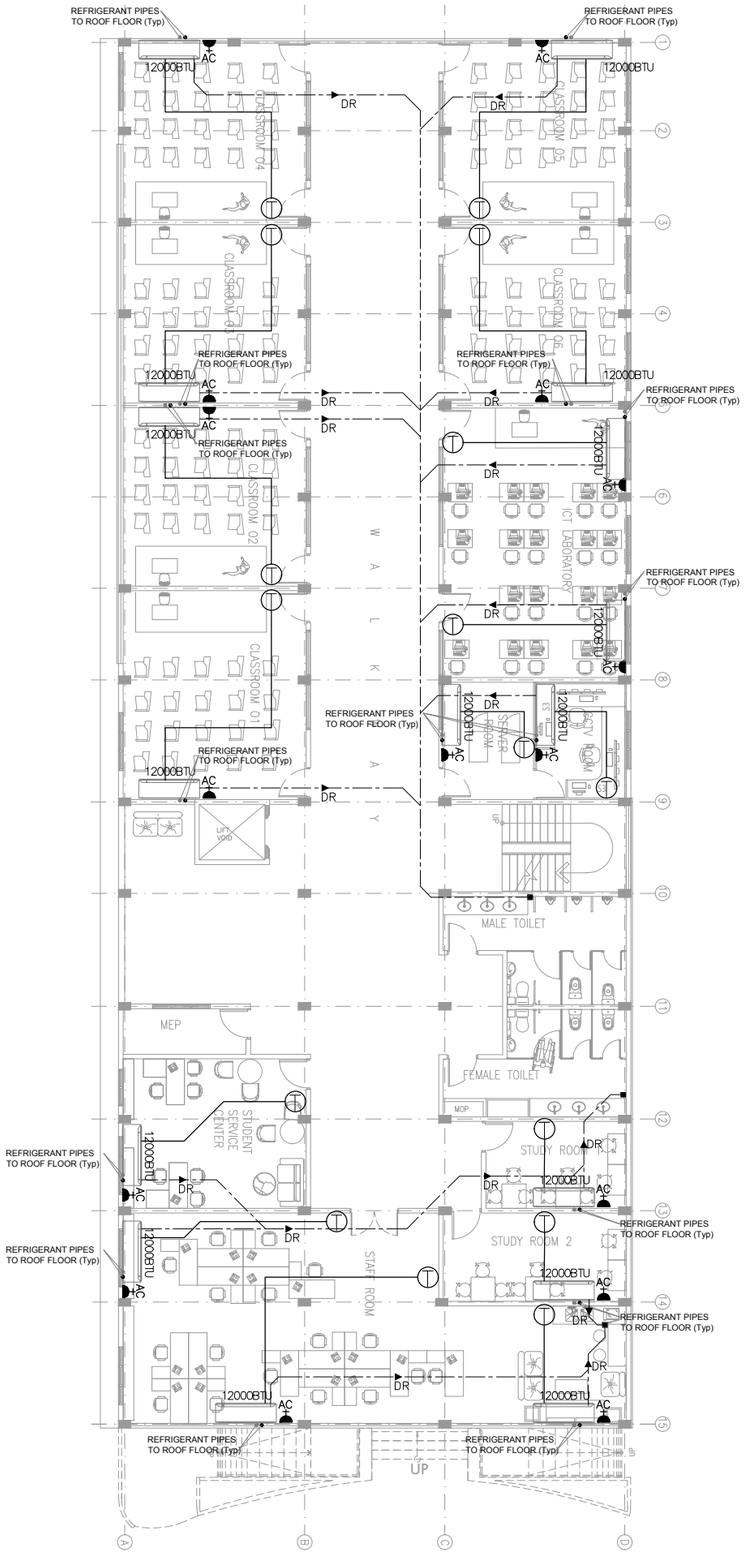



| SYMBOL | DESCRIPTION |
|---|---|
| | INDOOR WALL MOUNTED SPLIT UNIT |
| OUTDOOR UNIT | OUT DOOR UNIT |
| T | THERMOSTAT |
| 15A @ HL | 15A SINGLE SWITCHED SOCKET OUTLET |
| | SPN ISOLATOR |
| S | REFRIGERANT SUPPLY |
| R | REFRIGERANT RETURN |
| DR | CONDENSE DRAIN PIPE |

# GROUND FLOOR ACMV PLAN

SCALE 1:200

0m 5m

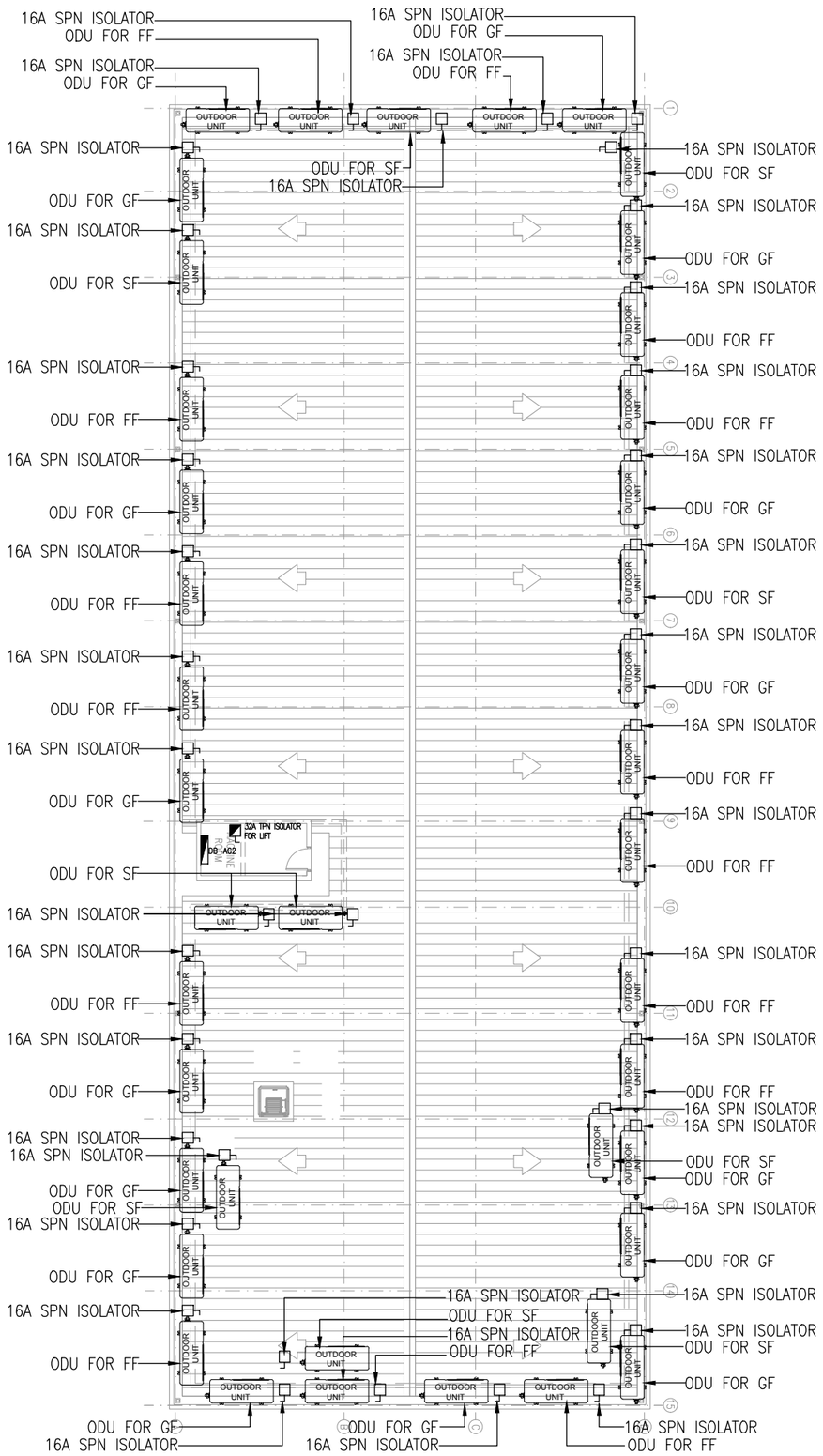



| SYMBOL | DESCRIPTION |
|---|---|
| | INDOOR WALL MOUNTED SPLIT UNIT |
| OUTDOOR UNIT | OUT DOOR UNIT |
| T | THERMOSTAT |
| 15A @ HL | 15A SINGLE SWITCHED SOCKET OUTLET |
| | SPN ISOLATOR |
| S | REFRIGERANT SUPPLY |
| R | REFRIGERANT RETURN |
| DR | CONDENSE DRAIN PIPE |

# FIRST FLOOR ACMV PLAN

SCALE 1:200

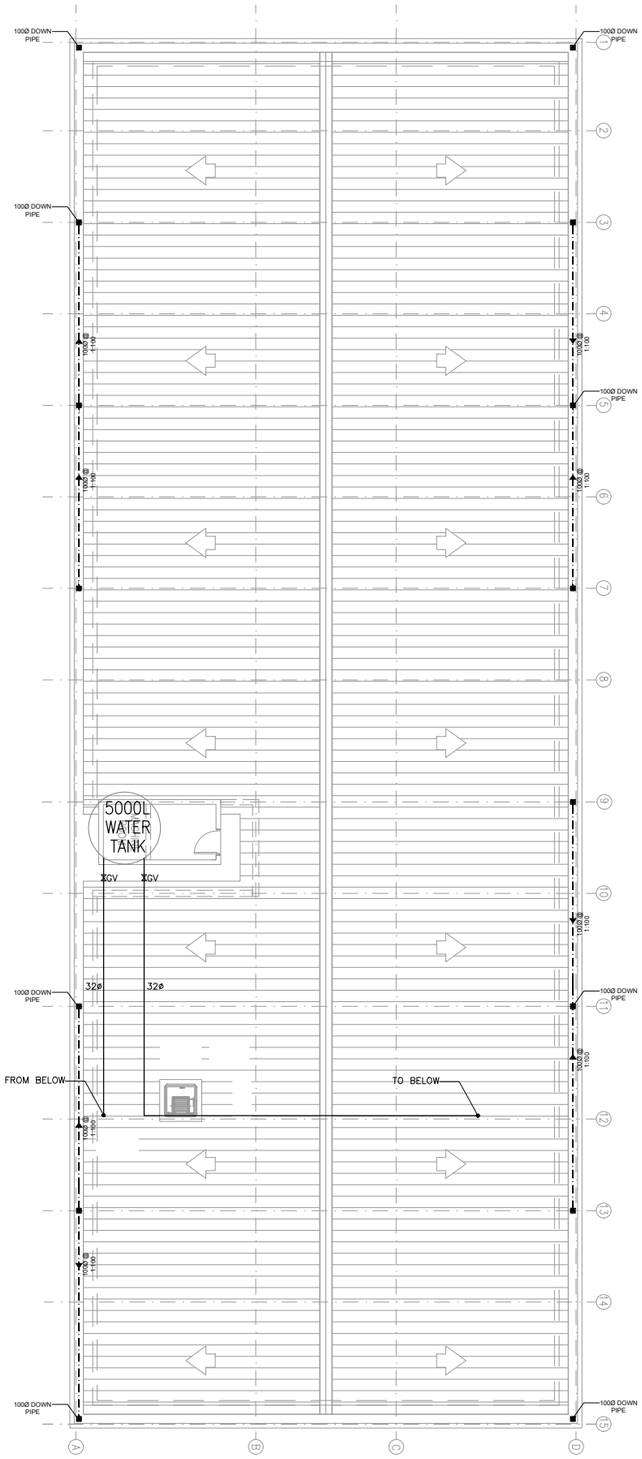
0m 5m




## ROOF FLOOR AC/POWER PLAN

SCALE 1:200

0m 5m

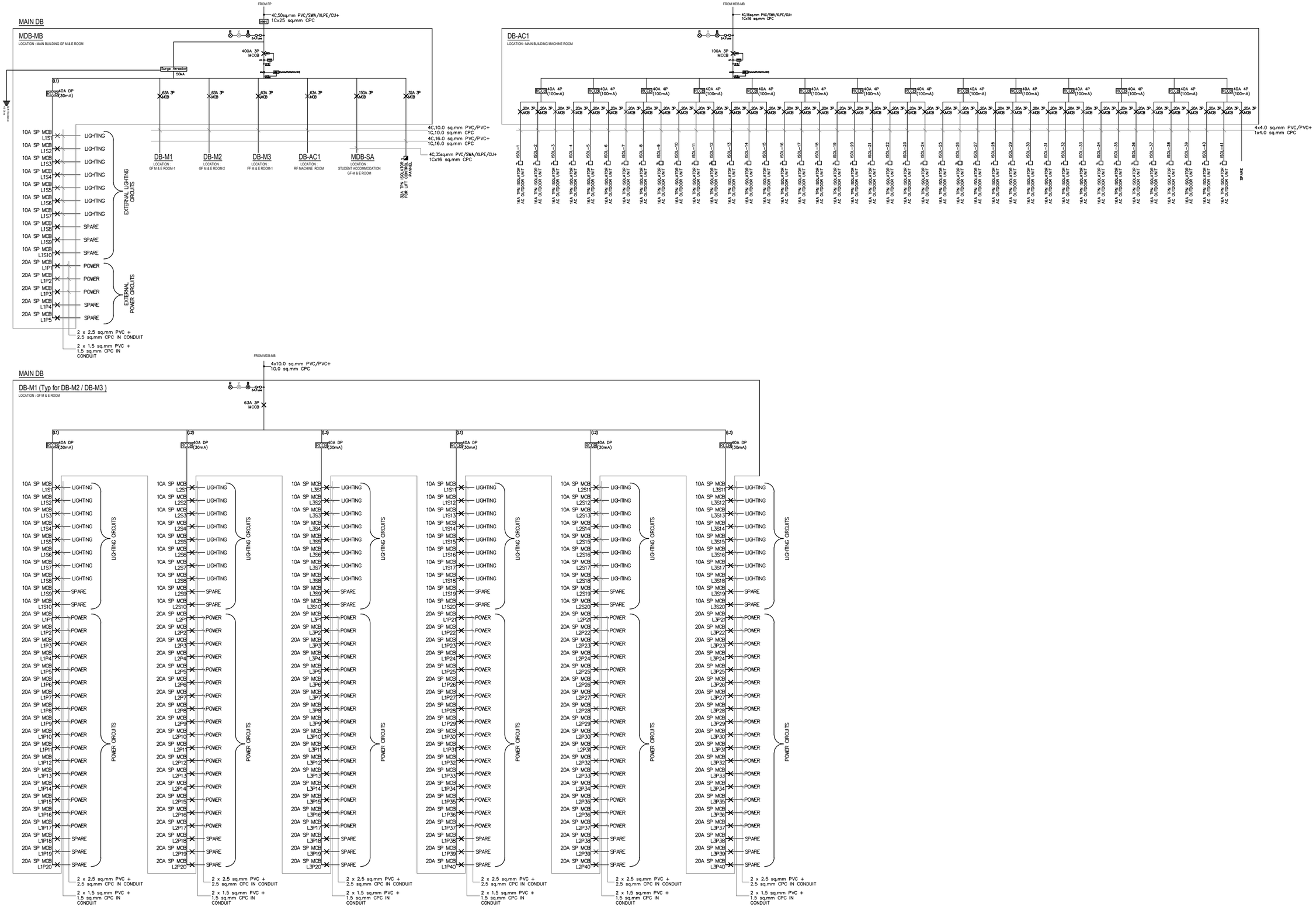



## ROOF FLOOR RAIN WATER AND WATER SUPPLY PLAN

SCALE 1:200

0m 5m

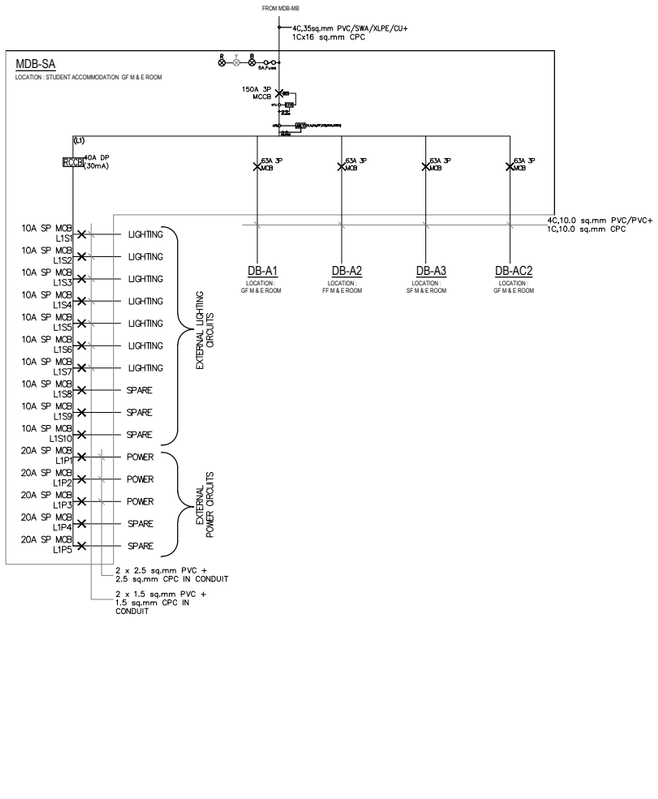
| SYMBOL | DESCRIPTION |
|---|---|
| OUTDOOR UNIT | OUT DOOR UNIT |
| | SPN ISOLATOR (RATING IS MENTIONED ON LAYOUT) |
| | TPN ISOLATOR (RATING IS MENTIONED ON LAYOUT) |
| | COLD WATER PPR PIPE |
| XGV | GATE VALVE |
| | FLOOR DRAIN |
| | RAIN WATER WATER PIPE 100ø |

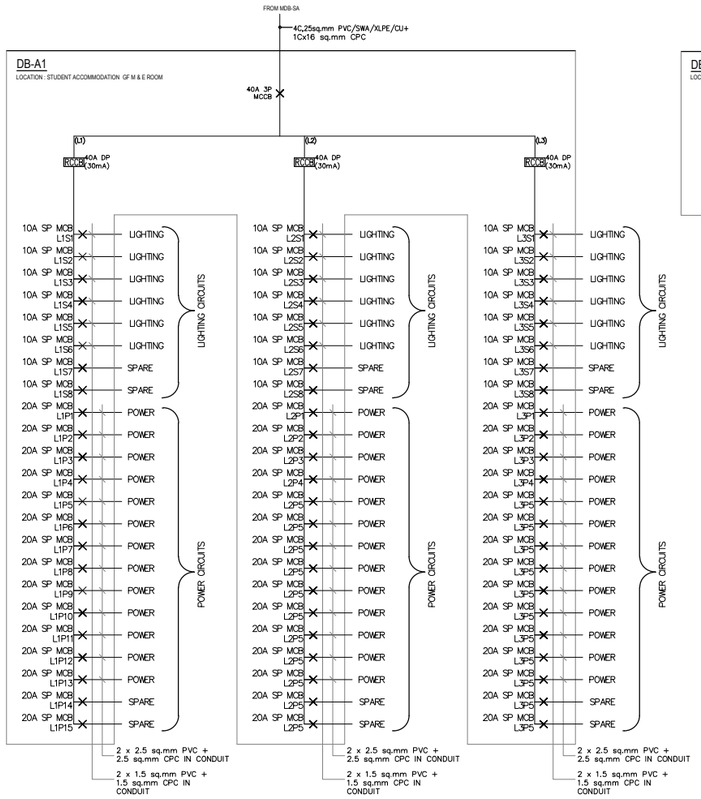


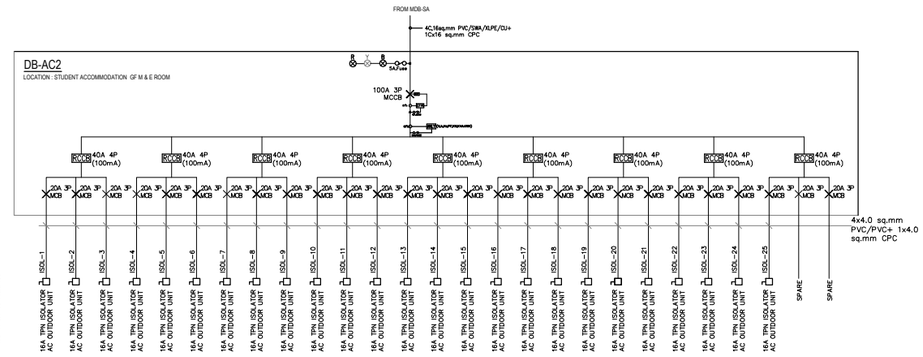

# MAIN POWER DISTRIBUTION SINGLE LINE DIAGRAM AND LOAD SCHEDULE.

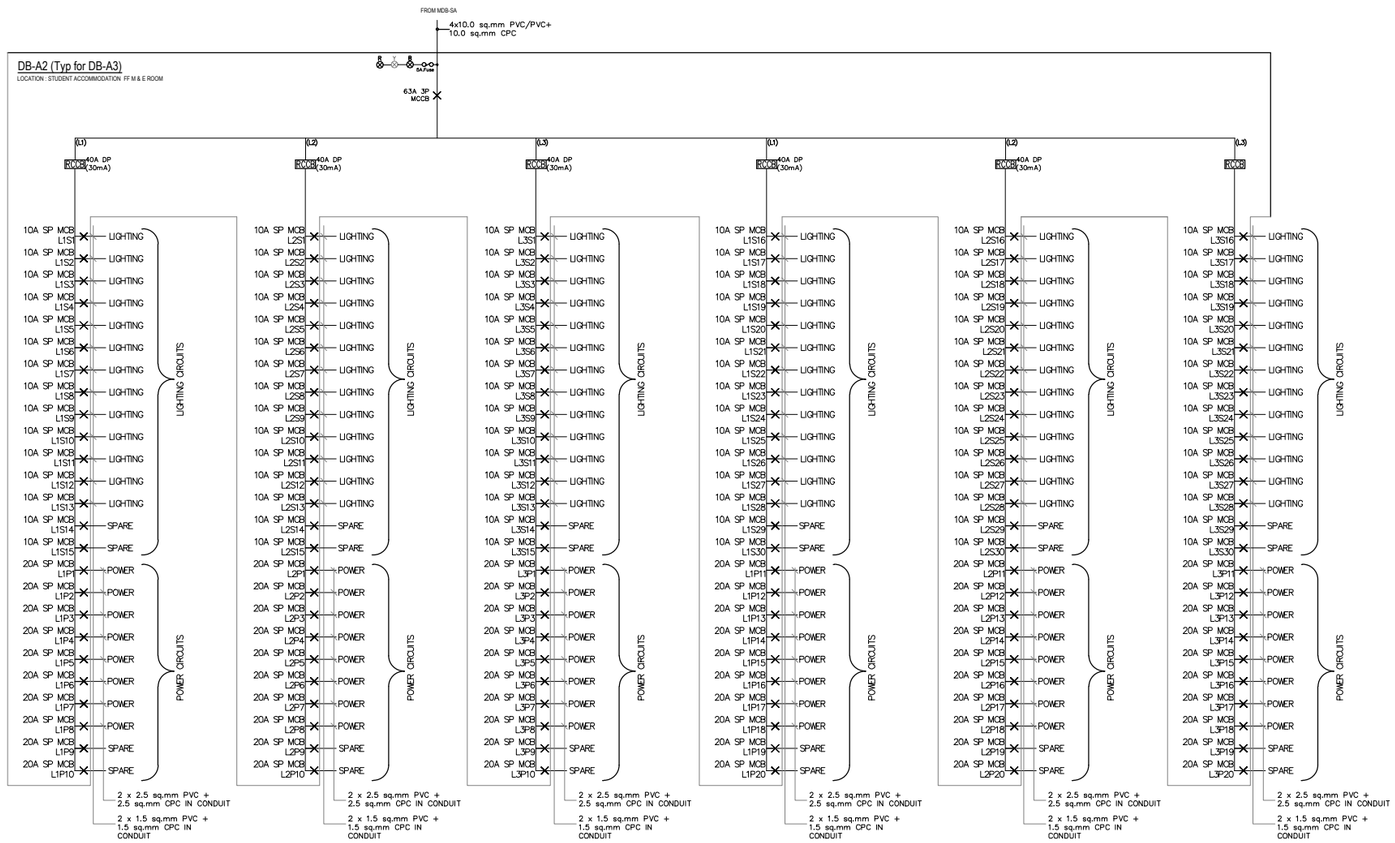
SCALE 1:100

0m 5m


FROM MDB-MB
4C,35sq.mm PVC/SWA/XLPE/CU+ 1Cx16 sq.mm CPC
MDB-SA
LOCATION : STUDENT ACCOMMODATION GF M & E ROOM
150A 3P MCCB
(L1)
40A DP RCCB (30mA)
63A 3P MCB
4C,10.0 sq.mm PVC/PVC+ 1C,10.0 sq.mm CPC
DB-A1 LOCATION : GF M & E ROOM
DB-A2 LOCATION : FF M & E ROOM
DB-A3 LOCATION : SF M & E ROOM
DB-AC2 LOCATION : GF M & E ROOM
10A SP MCB L1S1 LIGHTING
10A SP MCB L1S2 LIGHTING
10A SP MCB L1S3 LIGHTING
10A SP MCB L1S4 LIGHTING
10A SP MCB L1S5 LIGHTING
10A SP MCB L1S6 LIGHTING
10A SP MCB L1S7 LIGHTING
10A SP MCB L1S8 SPARE
10A SP MCB L1S9 SPARE
10A SP MCB L1S10 SPARE
EXTERNAL LIGHTING CIRCUITS
20A SP MCB L1P1 POWER
20A SP MCB L1P2 POWER
20A SP MCB L1P3 POWER
20A SP MCB L1P4 SPARE
20A SP MCB L1P5 SPARE
EXTERNAL POWER CIRCUITS
2 x 2.5 sq.mm PVC + 2.5 sq.mm CPC IN CONDUIT
2 x 1.5 sq.mm PVC + 1.5 sq.mm CPC IN CONDUIT


FROM MDB-SA
4C,25sq.mm PVC/SWA/XLPE/CU+ 1Cx16 sq.mm CPC
DB-A1
LOCATION : STUDENT ACCOMMODATION GF M & E ROOM
40A 3P MCCB
(L1) (L2) (L3)
40A DP RCCB (30mA)
10A SP MCB L1S1 LIGHTING
10A SP MCB L1S2 LIGHTING
10A SP MCB L1S3 LIGHTING
10A SP MCB L1S4 LIGHTING
10A SP MCB L1S5 LIGHTING
10A SP MCB L1S6 LIGHTING
10A SP MCB L1S7 SPARE
10A SP MCB L1S8 SPARE
LIGHTING CIRCUITS
20A SP MCB L1P1 POWER
20A SP MCB L1P2 POWER
20A SP MCB L1P3 POWER
20A SP MCB L1P4 POWER
20A SP MCB L1P5 POWER
20A SP MCB L1P6 POWER
20A SP MCB L1P7 POWER
20A SP MCB L1P8 POWER
20A SP MCB L1P9 POWER
20A SP MCB L1P10 POWER
20A SP MCB L1P11 POWER
20A SP MCB L1P12 POWER
20A SP MCB L1P13 POWER
20A SP MCB L1P14 SPARE
20A SP MCB L1P15 SPARE
POWER CIRCUITS
10A SP MCB L2S1 LIGHTING
10A SP MCB L2S2 LIGHTING
10A SP MCB L2S3 LIGHTING
10A SP MCB L2S4 LIGHTING
10A SP MCB L2S5 LIGHTING
10A SP MCB L2S6 LIGHTING
10A SP MCB L2S7 SPARE
10A SP MCB L2S8 SPARE
LIGHTING CIRCUITS
20A SP MCB L2P1 POWER
20A SP MCB L2P2 POWER
20A SP MCB L2P3 POWER
20A SP MCB L2P4 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P5 SPARE
20A SP MCB L2P5 SPARE
POWER CIRCUITS
2 x 2.5 sq.mm PVC + 2.5 sq.mm CPC IN CONDUIT
2 x 1.5 sq.mm PVC + 1.5 sq.mm CPC IN CONDUIT


FROM MDB-SA
4C,16sq.mm PVC/SWA/XLPE/CU+ 1Cx16 sq.mm CPC
DB-AC2
LOCATION : STUDENT ACCOMMODATION GF M & E ROOM
100A 3P MCCB
40A 4P RCCB (100mA)
20A 3P MCB
4x4.0 sq.mm PVC/PVC+ 1x4.0 sq.mm CPC
SOL-1 SOL-2 SOL-3 SOL-4 SOL-5 SOL-6 SOL-7 SOL-8 SOL-9 SOL-10 SOL-11 SOL-12 SOL-13 SOL-14 SOL-15 SOL-16 SOL-17 SOL-18 SOL-19 SOL-20 SOL-21 SOL-22 SOL-23 SOL-24 SOL-25
16A TPN ISOLATOR AC OUTDOOR UNIT
SPARE
SPARE


FROM MDB-SA
4x10.0 sq.mm PVC/PVC+ 10.0 sq.mm CPC
DB-A2 (Typ for DB-A3)
LOCATION : STUDENT ACCOMMODATION FF M & E ROOM
63A 3P MCCB
(L1) (L2) (L3) (L1) (L2) (L3)
40A DP RCCB (30mA)
10A SP MCB L1S1 LIGHTING
10A SP MCB L1S2 LIGHTING
10A SP MCB L1S3 LIGHTING
10A SP MCB L1S4 LIGHTING
10A SP MCB L1S5 LIGHTING
10A SP MCB L1S6 LIGHTING
10A SP MCB L1S7 LIGHTING
10A SP MCB L1S8 LIGHTING
10A SP MCB L1S9 LIGHTING
10A SP MCB L1S10 LIGHTING
10A SP MCB L1S11 LIGHTING
10A SP MCB L1S12 LIGHTING
10A SP MCB L1S13 LIGHTING
10A SP MCB L1S14 SPARE
10A SP MCB L1S15 SPARE
LIGHTING CIRCUITS
20A SP MCB L1P1 POWER
20A SP MCB L1P2 POWER
20A SP MCB L1P3 POWER
20A SP MCB L1P4 POWER
20A SP MCB L1P5 POWER
20A SP MCB L1P6 POWER
20A SP MCB L1P7 POWER
20A SP MCB L1P8 POWER
20A SP MCB L1P9 SPARE
20A SP MCB L1P10 SPARE
POWER CIRCUITS
10A SP MCB L2S1 LIGHTING
10A SP MCB L2S2 LIGHTING
10A SP MCB L2S3 LIGHTING
10A SP MCB L2S4 LIGHTING
10A SP MCB L2S5 LIGHTING
10A SP MCB L2S6 LIGHTING
10A SP MCB L2S7 LIGHTING
10A SP MCB L2S8 LIGHTING
10A SP MCB L2S9 LIGHTING
10A SP MCB L2S10 LIGHTING
10A SP MCB L2S11 LIGHTING
10A SP MCB L2S12 LIGHTING
10A SP MCB L2S13 LIGHTING
10A SP MCB L2S14 SPARE
10A SP MCB L2S15 SPARE
LIGHTING CIRCUITS
20A SP MCB L2P1 POWER
20A SP MCB L2P2 POWER
20A SP MCB L2P3 POWER
20A SP MCB L2P4 POWER
20A SP MCB L2P5 POWER
20A SP MCB L2P6 POWER
20A SP MCB L2P7 POWER
20A SP MCB L2P8 POWER
20A SP MCB L2P9 SPARE
20A SP MCB L2P10 SPARE
POWER CIRCUITS
10A SP MCB L3S1 LIGHTING
10A SP MCB L3S2 LIGHTING
10A SP MCB L3S3 LIGHTING
10A SP MCB L3S4 LIGHTING
10A SP MCB L3S5 LIGHTING
10A SP MCB L3S6 LIGHTING
10A SP MCB L3S7 LIGHTING
10A SP MCB L3S8 LIGHTING
10A SP MCB L3S9 LIGHTING
10A SP MCB L3S10 LIGHTING
10A SP MCB L3S11 LIGHTING
10A SP MCB L3S12 LIGHTING
10A SP MCB L3S13 LIGHTING
10A SP MCB L3S14 SPARE
10A SP MCB L3S15 SPARE
LIGHTING CIRCUITS
20A SP MCB L3P1 POWER
20A SP MCB L3P2 POWER
20A SP MCB L3P3 POWER
20A SP MCB L3P4 POWER
20A SP MCB L3P5 POWER
20A SP MCB L3P6 POWER
20A SP MCB L3P7 POWER
20A SP MCB L3P8 POWER
20A SP MCB L3P9 SPARE
20A SP MCB L3P10 SPARE
POWER CIRCUITS
10A SP MCB L1S16 LIGHTING
10A SP MCB L1S17 LIGHTING
10A SP MCB L1S18 LIGHTING
10A SP MCB L1S19 LIGHTING
10A SP MCB L1S20 LIGHTING
10A SP MCB L1S21 LIGHTING
10A SP MCB L1S22 LIGHTING
10A SP MCB L1S23 LIGHTING
10A SP MCB L1S24 LIGHTING
10A SP MCB L1S25 LIGHTING
10A SP MCB L1S26 LIGHTING
10A SP MCB L1S27 LIGHTING
10A SP MCB L1S28 LIGHTING
10A SP MCB L1S29 SPARE
10A SP MCB L1S30 SPARE
LIGHTING CIRCUITS
20A SP MCB L1P11 POWER
20A SP MCB L1P12 POWER
20A SP MCB L1P13 POWER
20A SP MCB L1P14 POWER
20A SP MCB L1P15 POWER
20A SP MCB L1P16 POWER
20A SP MCB L1P17 POWER
20A SP MCB L1P18 POWER
20A SP MCB L1P19 SPARE
20A SP MCB L1P20 SPARE
POWER CIRCUITS
10A SP MCB L2S16 LIGHTING
10A SP MCB L2S17 LIGHTING
10A SP MCB L2S18 LIGHTING
10A SP MCB L2S19 LIGHTING
10A SP MCB L2S20 LIGHTING
10A SP MCB L2S21 LIGHTING
10A SP MCB L2S22 LIGHTING
10A SP MCB L2S23 LIGHTING
10A SP MCB L2S24 LIGHTING
10A SP MCB L2S25 LIGHTING
10A SP MCB L2S26 LIGHTING
10A SP MCB L2S27 LIGHTING
10A SP MCB L2S28 LIGHTING
10A SP MCB L2S29 SPARE
10A SP MCB L2S30 SPARE
LIGHTING CIRCUITS
20A SP MCB L2P11 POWER
20A SP MCB L2P12 POWER
20A SP MCB L2P13 POWER
20A SP MCB L2P14 POWER
20A SP MCB L2P15 POWER
20A SP MCB L2P16 POWER
20A SP MCB L2P17 POWER
20A SP MCB L2P18 POWER
20A SP MCB L2P19 SPARE
20A SP MCB L2P20 SPARE
POWER CIRCUITS
10A SP MCB L3S16 LIGHTING
10A SP MCB L3S17 LIGHTING
10A SP MCB L3S18 LIGHTING
10A SP MCB L3S19 LIGHTING
10A SP MCB L3S20 LIGHTING
10A SP MCB L3S21 LIGHTING
10A SP MCB L3S22 LIGHTING
10A SP MCB L3S23 LIGHTING
10A SP MCB L3S24 LIGHTING
10A SP MCB L3S25 LIGHTING
10A SP MCB L3S26 LIGHTING
10A SP MCB L3S27 LIGHTING
10A SP MCB L3S28 LIGHTING
10A SP MCB L3S29 SPARE
10A SP MCB L3S30 SPARE
LIGHTING CIRCUITS
20A SP MCB L3P11 POWER
20A SP MCB L3P12 POWER
20A SP MCB L3P13 POWER
20A SP MCB L3P14 POWER
20A SP MCB L3P15 POWER
20A SP MCB L3P16 POWER
20A SP MCB L3P17 POWER
20A SP MCB L3P18 POWER
20A SP MCB L3P19 SPARE
20A SP MCB L3P20 SPARE
POWER CIRCUITS
2 x 2.5 sq.mm PVC + 2.5 sq.mm CPC IN CONDUIT
2 x 1.5 sq.mm PVC + 1.5 sq.mm CPC IN CONDUIT

| DISTRIBUTION BOARD | MDB-MB |
|---|---|
| LOCATION | MAIN BUILDING GF M & E ROOM |
| FEED FROM | FP |
| INCOMMING CABLE | 4C 50sqmmPVC/SWA/XLPE/CU + 1C 25sqmm PVC E |
| INCOMING BREAKER | 400A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | L1.S1 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S2 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S3 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S4 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S5 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S6 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S7 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S8 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S9 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | 2x1.5 | 0.90 | 0.00 | 0.00 | 0.00 |
| | L1.S10 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | 2x1.5 | 0.90 | 0.00 | 0.00 | 0.00 |
| | L1.P1 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P2 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P3 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P4 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P5 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | DB-M1 | 5340.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-M1 | 4C,10 | 0.90 | 4806.00 | 0.00 | 0.00 |
| | | 0.00 | 5340.00 | 0.00 | | | | | | 0.00 | 4806.00 | 0.00 |
| | | 0.00 | 0.00 | 5340.00 | | | | | | 0.00 | 0.00 | 4806.00 |
| 3 | DB-M2 | 5340.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-M2 | 4C,10 | 0.90 | 4806.00 | 0.00 | 0.00 |
| | | 0.00 | 5340.00 | 0.00 | | | | | | 0.00 | 4806.00 | 0.00 |
| | | 0.00 | 0.00 | 5340.00 | | | | | | 0.00 | 0.00 | 4806.00 |
| 4 | DB-M3 | 5340.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-M3 | 4C,10 | 0.90 | 4806.00 | 0.00 | 0.00 |
| | | 0.00 | 5340.00 | 0.00 | | | | | | 0.00 | 4806.00 | 0.00 |
| | | 0.00 | 0.00 | 5340.00 | | | | | | 0.00 | 0.00 | 4806.00 |
| 8 | DB-AC1 | 25200.00 | 0.00 | 0.00 | - | 100 3P MCB | DB-AC1 | 4C,16 | 0.90 | 22680.00 | 0.00 | 0.00 |
| | | 0.00 | 25200.00 | 0.00 | | | | | | 0.00 | 22680.00 | 0.00 |
| | | 0.00 | 0.00 | 23400.00 | | | | | | 0.00 | 3.00 | 21060.00 |
| 8 | MDB-SA | 26343.00 | 0.00 | 0.00 | - | 150 3P MCB | MDB-SA | 4C,35 | 0.90 | 23708.70 | 0.00 | 0.00 |
| | | 0.00 | 23733.00 | 0.00 | | | | | | 0.00 | 21359.70 | 0.00 |
| | | 0.00 | 0.00 | 23733.00 | | | | | | 0.00 | 3.00 | 21359.70 |
| 9 | LIFT CP | 1666.67 | 0.00 | 0.00 | - | 32 3P MCB | LIFT CONTYROL PANEL | 4C,16 | 1.90 | 3166.67 | 0.00 | 0.00 |
| | | 0.00 | 1666.67 | 0.00 | | | | | | 0.00 | 3166.67 | 0.00 |
| | | 0.00 | 0.00 | 1666.67 | | | | | | 0.00 | 4.00 | 3166.67 |
| Total Load | | 70929.67 | 66619.67 | 64819.67 | | | | | | 64963.37 | 61634.37 | 60004.37 |

| TOTAL CONNECTED LOAD (kW) | 202.37 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 186.60 |

| DISTRIBUTION BOARD | DB-M1( TYP FOR DB-M2 / DB-M3 ) |
|---|---|
| LOCATION | MAIN BUILDING GF M & E ROOM |
| FEED FROM | MDB-MB |
| INCOMMING CABLE | 4C 16sqmmPVC/SWA/XLPE/CU + 1C 10sqmm PVC E |
| INCOMING BREAKER | 63A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | L1.S1 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S2 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S3 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S4 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S5 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S6 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S7 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S8 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S9 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.90 | 0.00 | 0.00 | 0.00 |
| | L1.S10 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.90 | 0.00 | 0.00 | 0.00 |
| | L1.P1 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P2 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P3 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P4 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P5 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P6 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P7 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P8 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P9 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P10 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P11 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P12 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P13 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P14 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P15 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P16 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P17 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P18 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.50 | 0.00 | 0.00 | 0.00 |
| | L1.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.50 | 0.00 | 0.00 | 0.00 |
| 2 | L2.S1 | 0.00 | 100.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S2 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S3 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S4 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S5 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S6 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S7 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S8 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S9 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.S10 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P1 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P2 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P3 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P4 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P5 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P6 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P7 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P8 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P9 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P10 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P11 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P12 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P13 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P14 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P15 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P16 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P17 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P18 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | L3.S1 | 0.00 | 0.00 | 100.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S2 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S3 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S4 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S5 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S6 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S7 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S8 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S9 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.S10 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P1 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P2 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P3 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P4 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P5 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P6 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P7 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P8 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P9 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P10 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P11 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P12 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P13 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P14 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P15 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P16 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P17 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P18 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.50 | 0.00 | 0.00 | 0.00 |
| | L3.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.50 | 0.00 | 0.00 | 0.00 |
| 4 | L1.S11 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S12 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S13 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S14 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S15 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S16 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S17 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S18 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S19 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S20 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P11 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P12 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P13 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P14 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P15 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P16 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P17 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P18 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | L2.S11 | 0.00 | 100.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S12 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S13 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S14 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S15 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S16 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S17 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S18 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S19 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.S20 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P11 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P12 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P13 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P14 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P15 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P16 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P17 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P18 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | L3.S11 | 0.00 | 0.00 | 100.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S12 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S13 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S14 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S15 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S16 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S17 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S18 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S19 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.S20 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P11 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P12 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P13 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P14 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P15 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P16 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P17 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P18 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Load | | 9400.00 | 9400.00 | 9400.00 | | | | | | 5340.00 | 5340.00 | 5340.00 |

| TOTAL CONNECTED LOAD (kW) | 28.20 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 16.02 |

| DISTRIBUTION BOARD | DB-AC1 |
|---|---|
| LOCATION | MAIN BUILDING GF M & E ROOM |
| FEED FROM | MDB-MB |
| INCOMMING CABLE | 4C 16sqmmPVC/SWA/XLPE/CU + 1C 16sqmm PVC E |
| INCOMING BREAKER | 100A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | ISO-1 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-2 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-3 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 2 | ISO-4 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-5 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-6 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 3 | ISO-7 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-8 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-9 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 4 | ISO-10 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-11 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-12 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 5 | ISO-13 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-14 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-15 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 6 | ISO-16 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-17 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-18 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 7 | ISO-19 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-20 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-21 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 8 | ISO-22 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-23 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-24 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 9 | ISO-25 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-26 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-27 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 10 | ISO-28 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-29 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-30 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 11 | ISO-31 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-32 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-33 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 12 | ISO-34 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-35 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-36 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 13 | ISO-37 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-38 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-39 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 14 | ISO-40 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-41 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | SPARE | 0.00 | 0.00 | 0.00 | 20A SP MCB | (30mA) | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Load | | 28000.00 | 28000.00 | 26000.00 | | | | | | 25200.00 | 25200.00 | 23400.00 |

| TOTAL CONNECTED LOAD (kW) | 82.00 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 73.80 |

| DISTRIBUTION BOARD | DB-A2( TYP FOR DB-A3) |
|---|---|
| LOCATION | STUDENT ACCOMMODATION FF M & E ROOM |
| FEED FROM | MDB-SA |
| INCOMMING CABLE | 4C 10sqmmPVC/SWA/XLPE/CU + 1C 10sqmm PVC E |
| INCOMING BREAKER | 63A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | L1.S1 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S2 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S3 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S4 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S5 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S6 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S7 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S8 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S9 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S10 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S11 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S12 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S13 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S14 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S15 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P1 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P2 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P3 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P4 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P5 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P6 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P7 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P8 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P9 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P10 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | L2.S1 | 0.00 | 100.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S2 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S3 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S4 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S5 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S6 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S7 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S8 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S9 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S10 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S11 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S12 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S13 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S14 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.S15 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P1 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P2 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P3 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P4 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P5 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P6 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P7 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P8 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P9 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P10 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | L3.S1 | 0.00 | 0.00 | 100.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S2 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S3 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S4 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S5 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S6 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S7 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S8 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S9 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S10 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S11 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S12 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S13 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S14 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.S15 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P1 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P2 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P3 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P4 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P5 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P6 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P7 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P8 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P9 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P10 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | L1.S16 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S17 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S18 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S19 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S20 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S21 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S22 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S23 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S24 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S25 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S26 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S27 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S28 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S29 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S30 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P11 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P12 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P13 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P14 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P15 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P16 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P17 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P18 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | L2.S16 | 0.00 | 100.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S17 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S18 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S19 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S20 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S21 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S22 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S23 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S24 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S25 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S26 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S27 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S28 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S29 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.S30 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P11 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P12 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P13 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P14 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P15 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P16 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P17 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P18 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | L3.S16 | 0.00 | 0.00 | 100.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S17 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S18 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S19 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S20 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S21 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S22 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S23 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S24 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S25 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S26 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S27 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S28 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S29 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.S30 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P11 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P12 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P13 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P14 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P15 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P16 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P17 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P18 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P19 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P20 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Load | | 7400.00 | 7400.00 | 7400.00 | | | | | | 4740.00 | 4740.00 | 4740.00 |

| TOTAL CONNECTED LOAD (kW) | 22.20 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 14.22 |

| DISTRIBUTION BOARD | MDB-SA |
|---|---|
| LOCATION | STUDENT ACCOMMODATION GF M & E ROOM |
| FEED FROM | MDB-MB |
| INCOMMING CABLE | 4C 35sqmmPVC/SWA/XLPE/CU + 1C 16sqmm PVC E |
| INCOMING BREAKER | 150A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | L1.S1 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S2 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S3 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S4 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S5 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S6 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S7 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S8 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S9 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | 2x1.5 | 0.90 | 0.00 | 0.00 | 0.00 |
| | L1.S10 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | 2x1.5 | 0.90 | 0.00 | 0.00 | 0.00 |
| | L1.P1 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P2 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P3 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P4 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P5 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | DB-A1 | 2490.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-A1 | 4C,10 | 0.90 | 2241.00 | 0.00 | 0.00 |
| | | 0.00 | 2490.00 | 0.00 | | | | | | 0.00 | 2241.00 | 0.00 |
| | | 0.00 | 0.00 | 2490.00 | | | | | | 0.00 | 0.00 | 2241.00 |
| 3 | DB-A2 | 4740.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-A2 | 4C,10 | 0.90 | 4266.00 | 0.00 | 0.00 |
| | | 0.00 | 4740.00 | 0.00 | | | | | | 0.00 | 4266.00 | 0.00 |
| | | 0.00 | 0.00 | 4740.00 | | | | | | 0.00 | 0.00 | 4266.00 |
| 4 | DB-A3 | 4740.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-A3 | 4C,10 | 0.90 | 4266.00 | 0.00 | 0.00 |
| | | 0.00 | 4740.00 | 0.00 | | | | | | 0.00 | 4266.00 | 0.00 |
| | | 0.00 | 0.00 | 4740.00 | | | | | | 0.00 | 0.00 | 4266.00 |
| 5 | DB-AC2 | 16200.00 | 0.00 | 0.00 | - | 63 3P MCB | DB-AC2 | 4C,16 | 0.90 | 14580.00 | 0.00 | 0.00 |
| | | 0.00 | 14400.00 | 0.00 | | | | | | 0.00 | 12960.00 | 0.00 |
| | | 0.00 | 0.00 | 14400.00 | | | | | | 0.00 | 0.00 | 12960.00 |
| Total Load | | 29870.00 | 26370.00 | 26370.00 | | | | | | 26343.00 | 23733.00 | 23733.00 |

| TOTAL CONNECTED LOAD (kW) | 82.61 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 73.81 |

| DISTRIBUTION BOARD | DB-A1 |
|---|---|
| LOCATION | STUDENT ACCOMMODATION GF M & E ROOM |
| FEED FROM | MDB-SA |
| INCOMMING CABLE | 4C 10sqmmPVC/SWA/XLPE/CU + 1C 10sqmm PVC E |
| INCOMING BREAKER | 63A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | L1.S1 | 100.00 | 0.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S2 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S3 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S4 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S5 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S6 | 100.00 | 0.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 90.00 | 0.00 | 0.00 |
| | L1.S7 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.S8 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P1 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P2 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P3 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P4 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P5 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P6 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P7 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P8 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P9 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P10 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P11 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P12 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P13 | 300.00 | 0.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 150.00 | 0.00 | 0.00 |
| | L1.P14 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L1.P15 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | L2.S1 | 0.00 | 100.00 | 0.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S2 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S3 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S4 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S5 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S6 | 0.00 | 100.00 | 0.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 90.00 | 0.00 |
| | L2.S7 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.S8 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P1 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P2 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P3 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P4 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P5 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P6 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P7 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P8 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P9 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P10 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P11 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P12 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P13 | 0.00 | 300.00 | 0.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 150.00 | 0.00 |
| | L2.P14 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L2.P15 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | L3.S1 | 0.00 | 0.00 | 100.00 | 10A SP MCB | 40A DP RCCB (30mA) | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S2 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S3 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S4 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S5 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S6 | 0.00 | 0.00 | 100.00 | 10A SP MCB | | LIGHTING | 2x1.5 | 0.90 | 0.00 | 0.00 | 90.00 |
| | L3.S7 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.S8 | 0.00 | 0.00 | 0.00 | 10A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P1 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P2 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P3 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P4 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P5 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P6 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P7 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P8 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P9 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P10 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P11 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P12 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P13 | 0.00 | 0.00 | 300.00 | 20A SP MCB | | POWER | 2x2.5 | 0.50 | 0.00 | 0.00 | 150.00 |
| | L3.P14 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | L3.P15 | 0.00 | 0.00 | 0.00 | 20A SP MCB | | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Load | | 4500.00 | 4500.00 | 4500.00 | | | | | | 2490.00 | 2490.00 | 2490.00 |

| TOTAL CONNECTED LOAD (kW) | 13.50 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 7.47 |

| DISTRIBUTION BOARD | DB-AC2 |
|---|---|
| LOCATION | STUDENT ACCOMMODATION GF M & E ROOM |
| FEED FROM | MDB-SA |
| INCOMMING CABLE | 4C 16sqmmPVC/SWA/XLPE/CU + 1C 16sqmm PVC E |
| INCOMING BREAKER | 120A 4P MCCB |

| # | Circuit No | Total connected Load (W) | | | Circuit Breaker | Main Breaker | Description | CABLE SIZE sq.mm | Divercity Factor | Divercified Load (W) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R | Y | B | | | | | | R | Y | B |
| 1 | ISO-1 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-2 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-3 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 2 | ISO-4 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-5 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-6 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 3 | ISO-7 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-8 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-9 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 4 | ISO-10 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-11 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-12 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 5 | ISO-13 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-14 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-15 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 6 | ISO-16 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-17 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-18 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 7 | ISO-19 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-20 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-21 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 8 | ISO-22 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | ISO-23 | 0.00 | 2000.00 | 0.00 | 20A SP MCB | RCCB | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 1800.00 | 0.00 |
| | ISO-24 | 0.00 | 0.00 | 2000.00 | 20A SP MCB | (30mA) | A/C OUTDOOR UNIT | 2x4 | 0.90 | 0.00 | 0.00 | 1800.00 |
| 9 | ISO-25 | 2000.00 | 0.00 | 0.00 | 20A SP MCB | 40A DP | A/C OUTDOOR UNIT | 2x4 | 0.90 | 1800.00 | 0.00 | 0.00 |
| | SPARE | 0.00 | 0.00 | 0.00 | 20A SP MCB | RCCB | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| | SPARE | 0.00 | 0.00 | 0.00 | 20A SP MCB | (30mA) | SPARE | - | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Load | | 18000.00 | 16000.00 | 16000.00 | | | | | | 16200.00 | 14400.00 | 14400.00 |

| TOTAL CONNECTED LOAD (kW) | 50.00 |
|---|---|
| TOTAL DIVERSIFIED LOAD (kW) | 45.00 |