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Part 1

**Electric Fittings** 



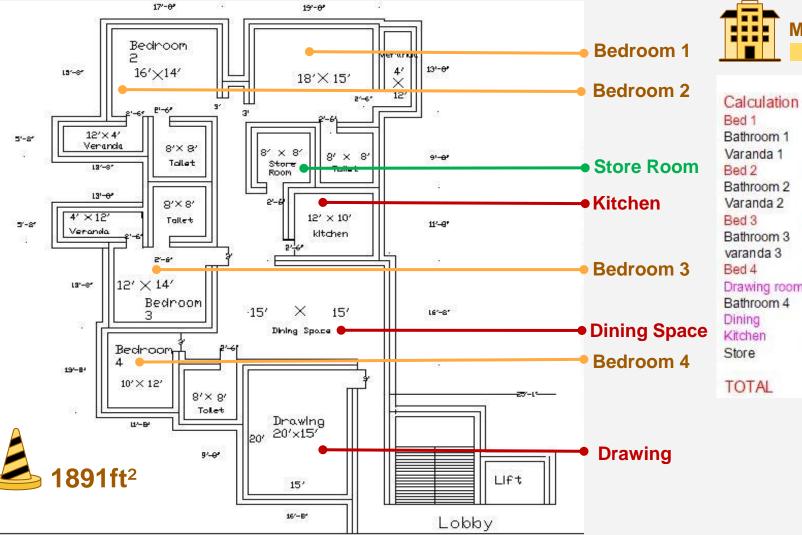






Part 2

**Electric Conduit** Layout





## **Main Civil Plan**

8x8= 64ft2

4x12=48ft

8x8= 64ft2

4x12=48ft

 $8x8 = 64ft^2$ 

012x4= 48ft2

20x15= 300ft2

15x15= 225ft<sup>2</sup>

12x10= 120ft2

8x8= 64ft2

8x8= 64ft

12x10= 120ft

14x12= 168ft



18x15=270ft\* Bathroom 1 Varanda 1 16x14=224ft2

varanda 3

Drawing room Bathroom 4

18911ft<sup>2</sup>



#### **Electric Fittings**



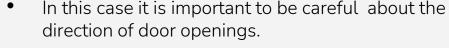
Placing Switchboards (SB)



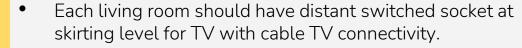
Placement of SDM & MDB



Placement of TV & Telephone



- direction of door openings.
- Locations of SB for 'Toilets', 'Stores', 'Kitchens' should be outside of the room.
- SDB and MDB should be placed in an easily accessible place where sufficient lighting arrangement is ensured.

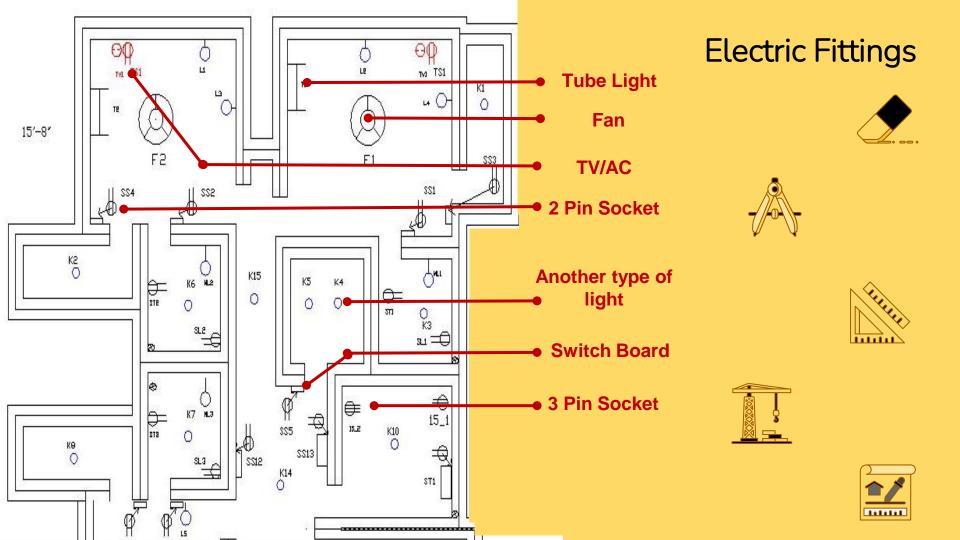


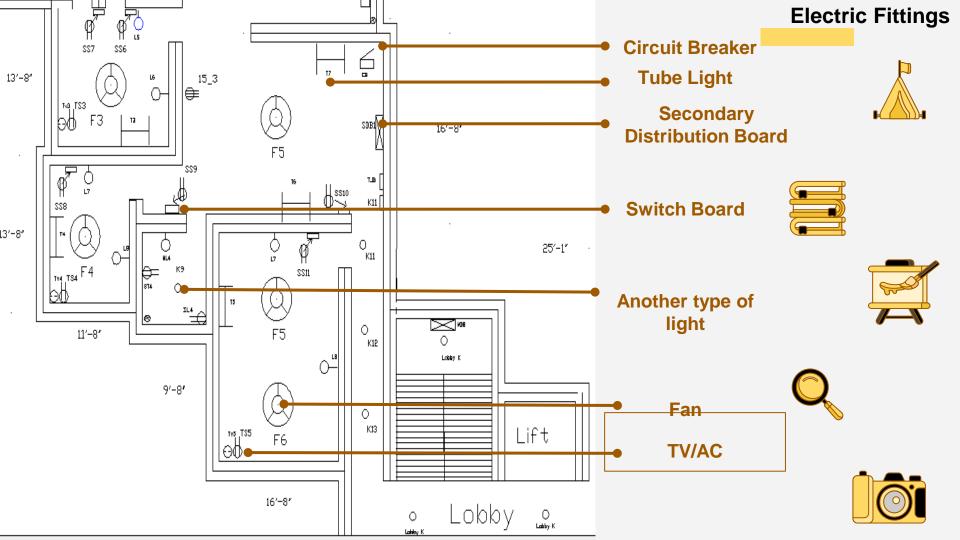
Fair amount of telephone connectivity options should be allocated.

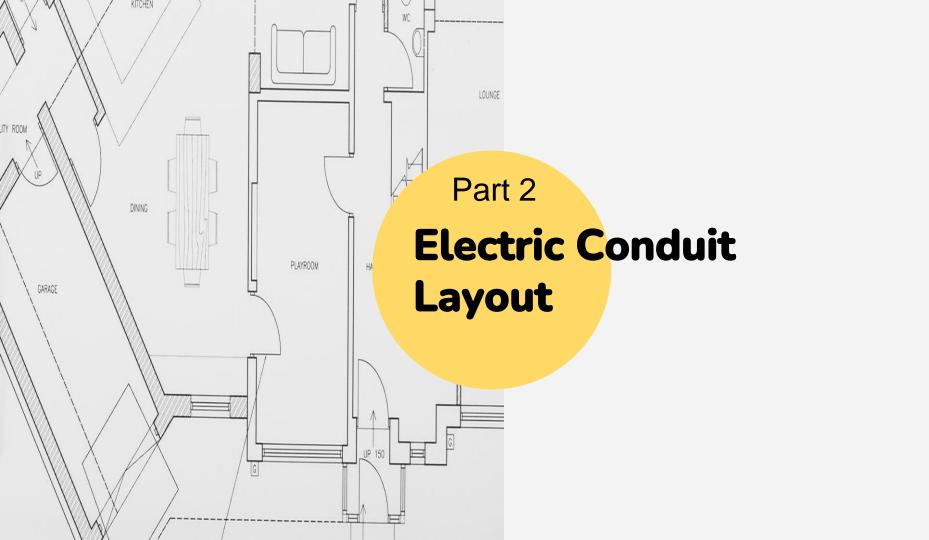


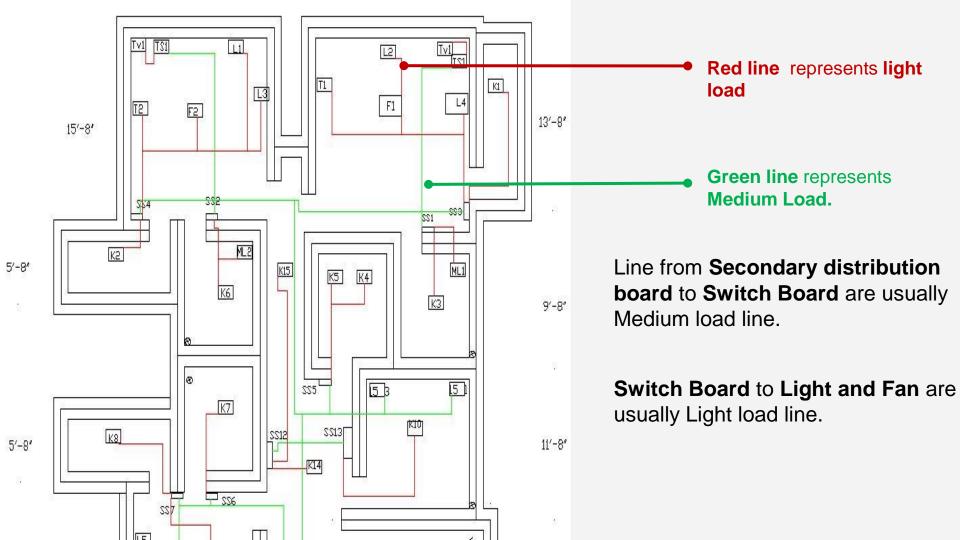
Placing Exhaust Fan

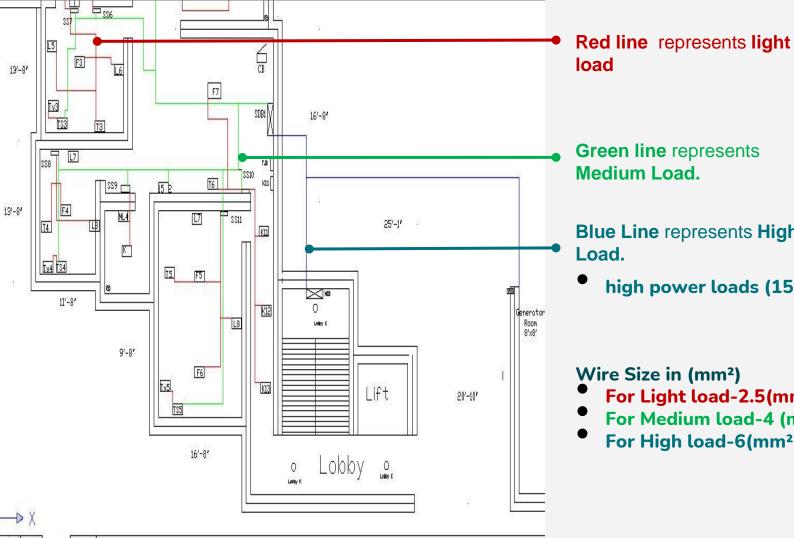
Every toilet and kitchen should have exhaust fans.











**Green line** represents Medium Load.

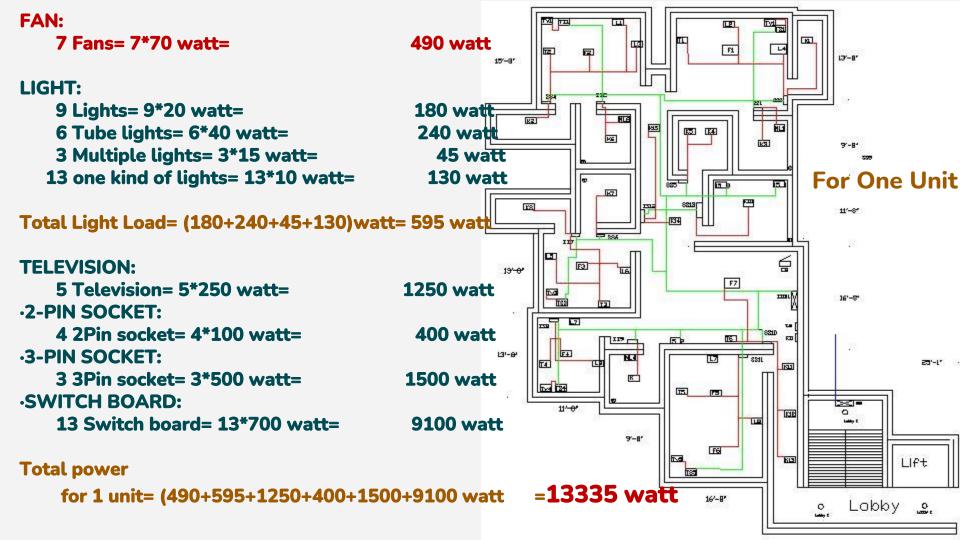
Blue Line represents High

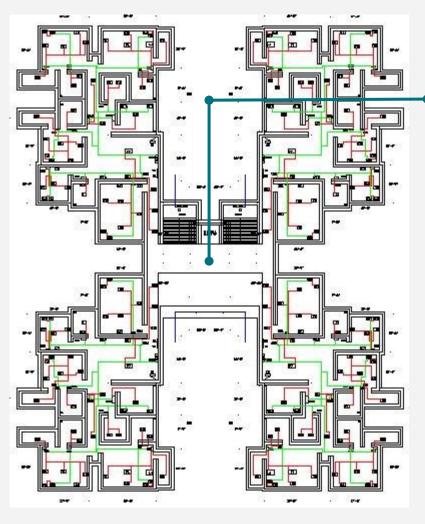
high power loads (15A, 20A).

- Wire Size in (mm<sup>2</sup>) For Light load-2.5(mm<sup>2</sup>)
- For Medium load-4 (mm²)
- For High load-6(mm<sup>2</sup>)

### <u>Load</u> Calculation







#### Load Calculation

For Full Floor &

Lobby power load calculation:

Light: 3 Lights= 3\*20 watt= 60 watt

Total power load for each floor= [(Unit power load)\*4 + Lobby power load]

=[(13335\*4+ 60] watt

=53400 watt

= 53.4 k watt

•Ground floor power load calculation:

LIGHT: 6 Lights= 6\*20 watt= 120 watt

FAN: 1 Fan= 70 watt

Total power load for ground floor= (120+70)watt= 190

watt= 0.19 kwatt

Building elevator= 25Hp= 18.64 kwatt

Finally,

Load for the building=[(Load for each floor)\*10 + Load for ground floor + Building elevator]

=[(53.4)\*10+0.19+18.64]kwatt

=552.83 kwatt

Building





**Thanks For Watching** 



# ALTERNATIVE ICONS







































