

Power Rating Calculation:

Sl. No.	Appliance/Device	Quantity	Power per Unit (Watt)	Total Power (Watt)
1	Normal Light	18	100	1800
2	Hanging Light	10	40	400
3	Ceiling Fan	16	70	1120
4	1-Pin Socket (5A)	9	200	1800
5	3-Pin Socket (15A)	11	1000	11000
6	Air Conditioner (AC)	9	1200	10800
7	Television	1	200	200
8	Telephone	1	5	5
	Total			27125 W / 27.12 kW

Total Power Requirement:

- **Total Load** = 1,800 + 400 + 1,120 + 1,800 + 11,000 + 10,800 + 200 + 5
- **Total** = 27,125 Watts = 27.13 kW

Generator Recommendation:

- Nearest Generator Size Required: **48 kW**

Generator Room Requirement (as per Bangladesh National Building Code):

- **Minimum Area:** 24 square meters for the generator room (for a conference room setup).