**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).