

## . TUBE LIGHT WIRING

**Aim:** To do the tube light wiring.

**Tools Required:**

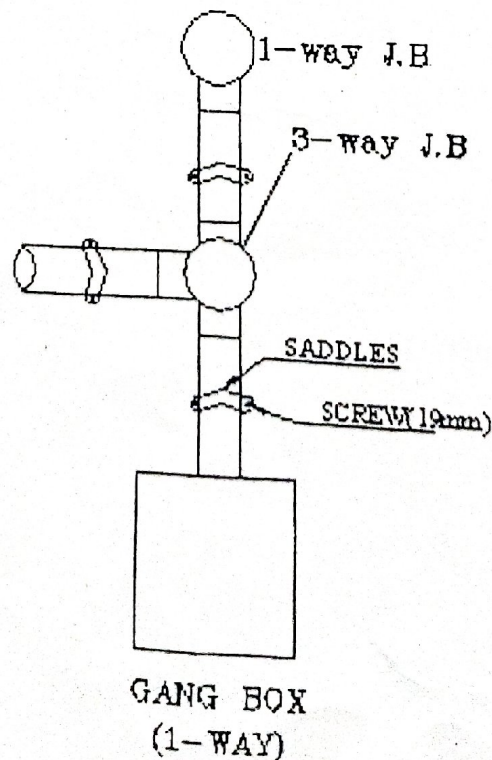
S.No	Name of the tool	Size	Qty
1.	Combination plier	15cm	1
2.	Screw Driver	15cm	1
3.	Connector	10cm	1
4.	Hammer	0.5Kg	1
5.	Electrician knife		1
6.	Tester	500V	1
7.	Hacksaw frame	30cm	1

**Equipment Required:**

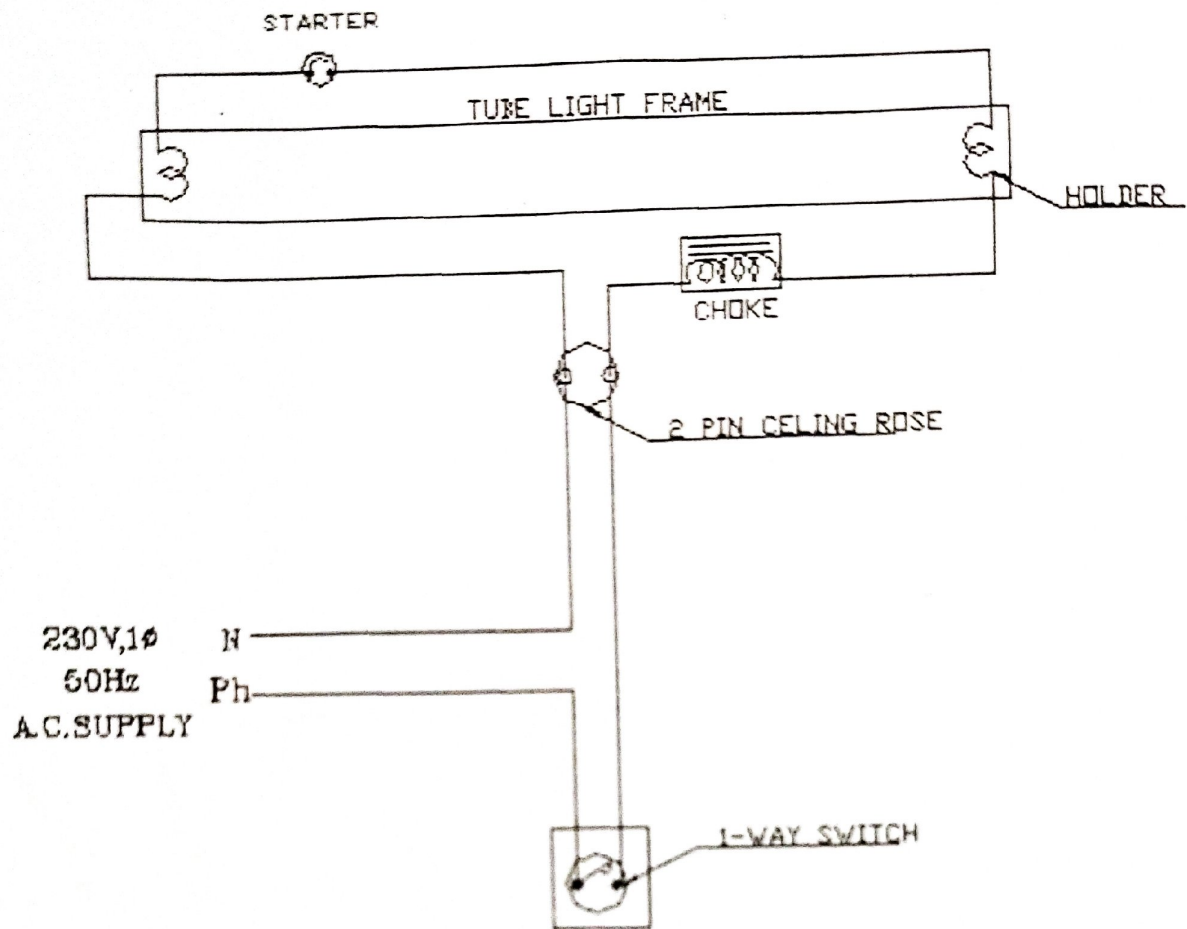
S.No	Name of the equipment	Type/Range	Qty
1.	PVC Insulated wire	1.5Sqmm	10Mts(app)
2.	PVC Conduit	19mm	3Mts(app)
3.	Saddles	19mm	6Nos
4.	Wooden screws	19mm 38mm	10Nos 8Nos
5.	Gang boxes	1-way	1
6.	Junction boxes	1-way 3-way	1 1
7.	Switches	2-way, 240V/5A	1
8.	Ceiling Roſe	2-Pin, 240V/5A	1
9.	Tube light set(Frame with holders, starter and choke)	40W, 240V	1
10	PVC insulation tape		

**Circuit Diagram:**

**Layout:**



### Wiring Diagram:



### Procedure:

1. The PVC conduits, gang boxes, junction boxes and batten holder are fixed on the wiring board using saddles and wooden screws as shown in the layout diagram.
2. The 1.5 Sqmm PVC wire is laid in conduits as shown in wiring diagram.
3. Switches are fixed and the connections are made as shown in wiring diagram.
4. After checking the circuit, 1-Ø, 230V, 50Hz, supply is given to the circuit.
5. Working of the Tube light is verified.

### Precautions:

1. Make the connections correctly.
2. Make all connections tightly.
3. Check the circuit before giving the supply.
4. Use proper range equipment.

### Results: