

CONSUMER SAFETY ADVISORY:

Your First Line of Defence Against Electric Shock



Electricity powers our lives, but it carries hidden dangers. A single faulty wire or a simple incident can lead to severe electric shock, fire, or electrocution. Fortunately, a small device offers powerful protection: the Residual Current Circuit Breaker (RCCB).

Why Is an RCCB Non-Negotiable for Your Safety?

Installing an RCCB isn't just a smart choice—it's the law. As per CEA Regulation No. 44, every home and office must be protected by a Residual Current Device (RCD) with a sensitivity of 30mA or less.

The RCCB is the modern, superior standard for this protection.



RCCB (Modern & Accurate):

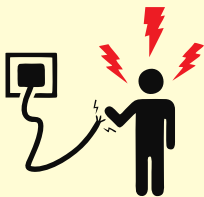
This device constantly monitors the balance of electrical current flowing in the Phase (live) and Neutral wires. The instant it detects an imbalance or "leakage"—even a tiny one—it trips and cuts the power.



ELCB (Older Technology):

An older device that only trips when it detects current in the earth wire. Its effectiveness depends entirely on the quality of your earthing, making it less reliable.

An RCCB is your instant-acting safety guard that protects against:



Fatal Electric Shocks & Electrocution



Electrical Fires



Damage to Appliances and Property

How Does an RCCB Save Lives?

Think of your RCCB as a high-speed bodyguard for your electrical system.

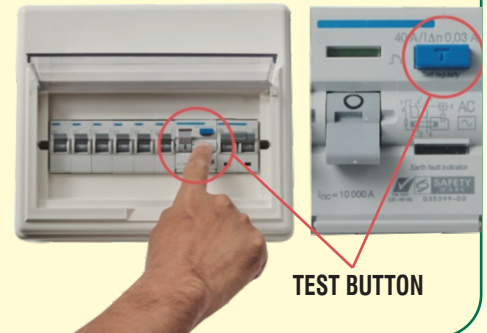
1. **Constant Monitoring:** It continuously compares the current going into an appliance with the current coming out.
2. **Normal Conditions:** In a safe circuit, these two currents are perfectly equal.
3. **Danger Detected:** If a person touches a live wire or a faulty appliance, a small amount of current leaks through their body to the ground. This creates an imbalance.
4. **Instant Action:** The moment this imbalance exceeds the safe limit (30mA), the RCCB cuts off the electricity in milliseconds—faster than a heartbeat—preventing serious injury or death.



Your Essential Guide to RCCB Installation and Use

Where is it installed? The RCCB is installed in your main Distribution Board (DB Box), alongside your MCBs. It will have a small "TEST" button on it.

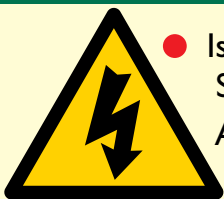
Who should install it? Only a licensed electrician — this is crucial for your safety. You can find a list of licensed professionals on the Delhi Labour Department website: <https://labour.delhi.gov.in/labour/contact-us>



Key Guidelines for Every Consumer:

- ✓ **Mandatory Installation:** Ensure an RCCB is installed in your home or office. It's a legal requirement.
- ✓ **Choose the Right Rating:** Always insist on an RCCB with a 30mA sensitivity for maximum personal protection.
- ✓ **Test It Regularly:** Press the "TEST" button once every six months. The RCCB should trip immediately. If it doesn't, it's faulty and needs to be replaced.
- ✓ **Don't Ignore a Trip:** If your RCCB trips, it has detected a leakage. This is a warning sign of a potentially dangerous fault in your wiring or an appliance. Contact a licensed electrician immediately to diagnose and fix the issue. A current leak is not only dangerous, but it also wastes electricity and increases your bills.
- ✗ **NEVER Bypass or Remove:** Bypassing an RCCB is like removing the airbags from your car. Never do it.

CRITICAL SAFETY WARNING: For HVDS Areas & Construction Near Power Lines



- Is your home located in an area supplied by BRPL's High Voltage Distribution System (HVDS)?

Are you planning any external work like construction, renovation, tiling, or painting near overhead power lines?

STOP! Before beginning any work, you **MUST** meet the area Sub-Division Officer to understand the safety guidelines, precautions, and inherent risks. You can find the addresses of the BRPL Sub-Division Offices at the following BSES website link:

<https://www.bsesdelhi.com/web/brpl/sub-division-offices>

- As per Regulation 64 of the Central Electricity Authority (CEA), carrying or transporting rods, pipes, or other similar metal objects beneath or in close proximity to overhead power lines is strictly prohibited

This is a mandatory safety protocol to prevent fatal accidents, electrocution, and damage to property. Do not risk your life or the lives of others.



An RCCB is a small investment that provides priceless protection for you and your loved ones. Install it, test it, and never ignore its warnings.

Because Life is Precious.