

## **“POWER-POST” VOL.3**

### **(2020)**



### **Deadliest Pandemic Ever COVID 19**

The Corona virus has not only made an impact on the medical scenario of the world but it has also adversely effected the economic situation of the entire world. It has been one of the most difficult phase ever faced by the economy. The required lock-down period to break the chain of this deadly virus has made a huge hit on the Industries, offices, commercial sector, schools, colleges and many other sectors. Either rich or poor, businessman or service class, industrialist or labor all have been impacted badly in this phase. Although we had also seen few positives during all this pandemic situation. One of the biggest concern of the Ozone layer hole which was increasing with time has almost completely healed. People have learned to live with their basic necessities and have stopped spending unnecessarily. They have spend time with their families and some have also learned new skills.

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Deadliest Pandemic Ever

# Corona Virus "Covid 19"

Nature has its own way to answer  
;it can nurture or it can destroy...

Its high time we act  
responsibly and stop  
killing birds & animals

#covid19

@sushilengineers





Medical staff including Doctors, Nurses and all the other hospital workers have worked 24 X 7 to cure everyone. They all worked together for the treatment of COVID 19 patients without hesitating the risk of their own lives.

They truly behaved as front line warriors in protecting everyone from this hazardous disease. While all others were sitting in homes with their families these warriors were putting their life at risk in protecting the citizens.

Along with them were the **police, sweepers, cleaners, traffic police and many other essential goods supplier** who have worked in this tough time to help everyone.

Considering the impact of lives and the spread of this virus from one person to other this virus has made everyone to adapt certain changes in their lifestyle. Regular hand wash, use of face mask, use of sanitizers, maintain hygiene, use of cloth while sneezing, no handshakes and maintaining social distancing has become a forceful regulation to be followed by all. Sanitization using sodium hypochlorite solution is now a regular practice to be done inside the industrial premises. All the factory labors are being educated to wear hand gloves, use face mask and wash their hands frequently with soap. Hand sanitizers are being installed in Industries and offices along with the IR scanner to check the body temperature of person entering in the area.



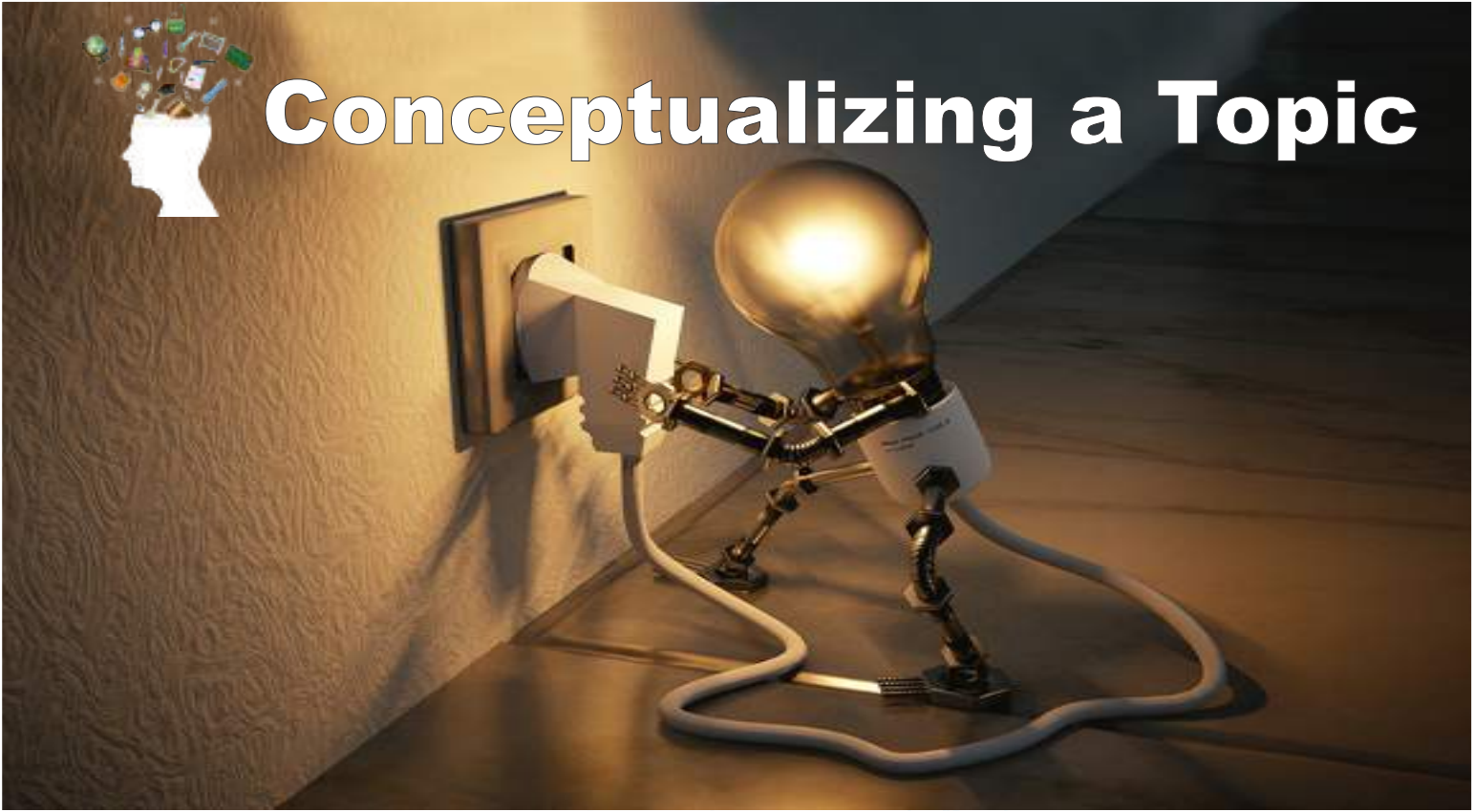
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**P**ower generation and Diesel generators were working all days to ensure uninterrupted power supply. All our engineers were attending service calls and complaints to make sure no one faces the lack of power. We had a team of technicians who were there for the hospitals to ensure their smooth running and carry on with treatment without the fear of power failure. Our team made sure that no essential Industry working in the lockdown situation has the fear of power failure. DG sets, servos, transformers, Electrical Panels all were supported by our service engineers. A big salute to our hidden warriors also who worked silently during this tough phase.



# Conceptualizing a Topic



## What exactly is the difference between MCB's & MCCB's ?



**M.C.B**

A **MCB** or **Miniature circuit breaker** automatically switches OFF electrical circuit during any abnormal condition in the electrical network such as overload & short circuit conditions.

- It stands for Miniature Circuit Breaker.
- Comes till current capacity of 125 Amp.
- Its interrupting current is under 10KA.
- MCB is mainly used for lower Breaking capacity requirement mainly domestic.
- Non adjustable trip characteristics since they basically cater low circuits.

A **MCCB** or **Moulded case circuit breaker** is another type of electrical protection device which is used when load current exceeds the limit of a MCB.

- It stands for Moulded Case Circuit Breaker.
- Comes up to current capacity rating 1600A.
- Its interrupting current ranges from around 10KA -85KA.
- MCCB is mainly used for both low & high breaking capacity mainly industrial.
- Its tripping is fixed as well as adjustable for overload and magnetic setting.



**M.C.C.B**



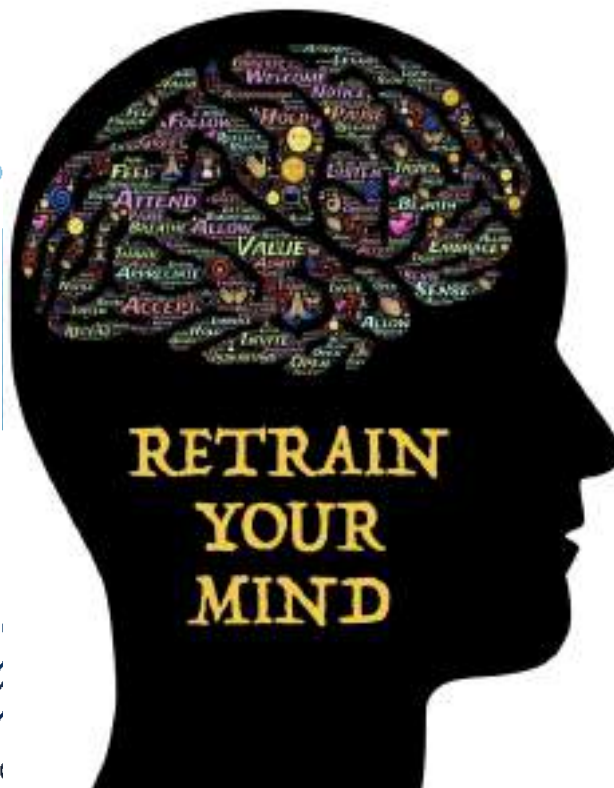
# Comparing RCCB's over ELCB's ...



**R.C.C.B**

A **RCCB** or **Residual current circuit breaker** is basically an electrical wiring device that disconnects the circuit whenever there is leakage of current flow through the Human body or the current is not balanced between the phase conductor.

- It stands for Residual Current Circuit Breaker.
- It refers to current operated devices.
- It ensures 100% detection of leakage current & is available to sense the AC as well as DC leakage current.
- RCCB has no connection with the earth wire and that's why it can trip when both currents (phase and neutral) are different and it withstands till both the currents are same.



An **ELCB** or **Earth Leakage Circuit Breaker** has the same function as that of a RCCB but are voltage sensor device.

- It stands for Earth leakage circuit breaker.
- ELCB refers to voltage operated earth leakage device.
- It is not preferable as it can only detect current that flow back through the main earth wire.
- Its working is based on the Earth leakage current. It measures the voltage on the earth conductor; if this voltage is not zero it indicates a current leakage to earth.



**E.L.C.B**



## ***Feedback from M/s Tulip Hospital, Sonipat, Haryana.***

**W**e are always excited to hear it from our customer and improve our services to delight them with our best possible efforts. Here is a copy of a letter from our prestigious customer M/s Tulip Multispecialty Hospital, Sonipat, Haryana using 250KVA, 125KVA and 62.5KVA DG set supplied and installed by us.

Tulip hospital is one of the biggest hospital in Sonipat, Haryana. It is one of the most well quipped hospital in the region having all the latest equipments and well experienced team of doctors. It is located in the heart of the city and is a life savior for many peoples. Many local commutes and even from Delhi visit this hospital for their treatment.

The hospital also has a branch in Kharkhoda, Sonipat. Many small operation and surgeries are carried out there only. The power backup for this hospital is covered by our cummins powered 62.5KVA DG set.

Considering the risk of life and dependability of public on the Hospital there need for 24X7 uninterrupted power supply is met by our supplied and installed cummins DG sets. We had done a complete load analysis for the entire hospital and have then take the decision for the installation of 125KVA DG set specifically for the Cath Lab and 250KVA for the complete hospital building.

Considering the ease of management and operation a provision of Auto Start/Stop of DG set has been made for the 250KVA DG set so that there should be no situation of power failure in the hospital premises. Also a provision for remote start/stop for 125KVA DG set is made near the Cath lab to carry out the entire surgery on the 125KVA Cummins powered DG set.

Also a small DG set of 62.5KVA has been installed at the Kharkhoda hospital for a trouble free operation of the Hospital.







# *Showcasing some achievements*

**62.5KVA DG set  
supplied & installed at  
St. Angel's Global School  
Gurgaon.**



**40KVA DG set  
supplied & installed at  
Mr. Karan Goyal, Sonipat.**

**25KVA DG set  
supplied & installed at  
M/s Arun Trading Co.,  
Panipat.**



**40KVA DG set  
supplied & installed at  
Mr. Atul Goyal, Sonipat.**

# Few Amazing lifts



**A 40 KVA DG set  
lifted on the rooftop**



**A 62.5 KVA DG set  
lifted over the wall**



**“Know what sparks the light in you.  
Then use that light to illuminate the world”  
- Oprah Winfrey**

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