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Why you need to replace your conventional tubelight with LED Batten?

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Conventional tubelights have been around for what seems like "forever" providing affordable lighting for residential as well as commercial areas. Even with its several shortcomings such as flickering, choke going bad, etc. conventional tubelights aka fluorescent tubelights (FTL) gained widespread adoption due to its decent longevity and efficiency over incandescent bulbs. But just because something has been around "forever" doesn't make it the best solution out there.

Today, we are going to explore the benefits of **Orient Electric's LED Batten** - a better, far more efficient and durable alternative to conventional tubes.

LED Batten have been around for some time but they haven't gained the widespread adoption they should have, at least not yet. Today, we will be weighing in on several functional as well as aesthetic aspects of both conventional tubes and LED Batten to determine why it's better (and more profitable) to move over tubelights and use their LED alternatives.

Energy Consumption

One of the biggest concerns of running a household is the consumption of electricity (and its cost). Energy consumption or electricity use is a strong factor in deciding what kind of appliances or lighting one should use. A lot of people put a lot of emphasis on installing energy-efficient A/Cs, fridges and refrigerators. But they fail to realize the potential savings of using LED Batten compared to conventional tubelights.

How much potential savings, you ask? Let's crunch some numbers. For this exercise, let's say we replace a conventional tubelight (40W) with an Orient LED Batten (18W). Below is a chart that analyzes how much savings one LED Batten can achieve compared to previous lighting technologies.

Technology	Wattage (W)	Life Span (hrs)	Usage in 1 year (kWh)	Cost in 1 year* (in Rs)
LED Batten	18	20000+	65	394
Tubelight	40	8000	146	876
Incandescent	100	1000	365	2190

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*Electricity cost of Rs.8 per kWh (1 unit) & average 20h usage of 20 hours

Here, by this **Energy Calculator**, it is to learn more about the savings and environmental benefits of replacing tubelights (FTL) with LED batten.

Cost Saving

So from the above chart, it is clearly evident that Orient's LED Batten saves over twice the cost of a tubelights and over five-times that of incandescent. It is also important to realize that we got this saving from just one tube. If we were to use 5 LED Batten, the savings would go up to well above Rs. 2000 per year.

That is definitely a huge number to trim off your energy bills. Just keep in mind - the higher the number of fixtures, the more the savings. You can start saving from day one just by making the right choice when it comes to lighting your home.

Heat Production

Conventional tubelights tend to slowly lose their brightness over time and even end up burning some of its parts, the choke being the most common example. That is because tubelights - and even CFLs to some extent - generate nearly three the heat of an LED. So, apart from producing heat, conventional tubelights can also increase your cooling costs.



Burnt out CFLs and tubelight chokes

LED Batten, on the other hand, produce very less heat and are highly unlikely to burn out or pose a fire hazard. Once again, Orient LED Batten clearly trump conventional tubelights and CFLs in this category.

Lifespan

Conventional tubelights and CFLs last for up to 6000-8000 hours, whereas Orient LED Batten have been tested to have a lifespan of well over 20000 hours. So essentially, an Orient LED Batten can easily outlive the combined lifespan of at least 4-5 tubelights.

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The wasted productivity and cost of replacing and maintaining tubelights can now be a thing of the past. By switching to Orient LED Batten, you have a clear winner in terms of savings and durability, all while reducing your carbon footprint and helping the environment.



Lighting Performance

LED Batten maintain their brightness levels throughout their lifespan. However, the same cannot be said for conventional tubelights. The quality of light from FTLs and CFLs have been found to degrade over time. As tubelights age, their brightness levels decrease significantly to the point that they start flickering.

Luminous Efficacy

By now, we have clearly established that Orient LED Batten hold a clear advantage over conventional tubelights. Need we say anything else? Luminous efficacy is yet another important factor where Orient LED Batten clearly come out on top.

Luminous efficacy is the measure of the number of lumens a bulb produces per watt. In other words, how much visible light is produced compared to the power consumed. If we compare Orient LED Batten against traditional tubelights, we get the following results:

- 40W tubelight chums out approx. 1900 lumens for 36 watts
- 18W Orient LED Batten easily produces over 3800 lumens for 18 watts

An Orient LED Batten consumes less than half the power to match the light produced by a conventional tubelight. Need we say anything else?

Now that we've covered most of the points pertaining to the functionality and benefits of Orient LED Batten compared to traditional tubelights, let's compare these products in terms of their aesthetics.

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Aesthetics

Orient LED Batten are easy to install, lie flat on the ceiling or wall. When you install an LED Batten, all the parts including the aluminum housing, LED cover, end caps etc. fit together seamlessly to form a single unit. There are no wires dangling, thus making it look even more stunning and contemporary. Moreover, it is easier to clean and shines significantly brighter than a conventional tubelight. You will never have to worry about yellowing or darkening of the tubes as LED Batten emit a bright, uniform light throughout their operational lifespan.



No more darkening; no more dangling wires

Orient LED Batten don't just look slim and modern but can also enhance the aesthetic quotient of any space within seconds. Available in 27, 30 and 48 variants, Orient LED Batten are also capable of changing their Correlated Color Temperature (CCT). That means you can switch between three different shades of light and find the right combination that really suits your needs and soothes your senses.

Conclusion

Replacing just one 40-watt conventional tubelight with an 18-watt Orient LED Batten gives an annual saving of about Rs. 480 while saving 81 kWh of annual energy and reducing annual CO2 emissions by 303 lbs. LED Batten are a perfect choice that provides high lumen efficacy and deliver significant energy and cost savings.

Orient LED Batten combine energy efficiency with an aesthetically pleasing slim design and serve as an ideal replacement for conventional tube lights in both residential as well as commercial spaces.