

Dear Friends,

Diwali is coming up. This year's Diwali contest is a technical challenge requiring a good eye site and some engineering understanding. It relates to energy savings lamps (CFL) replacing the "BULB" in your living room".

Follow the numbers and tell us what action the ball is triggering in this "bulb destroying machine". Be brief in your description. For instance a brief description of Step 22 could be.

"The forward moving hand out of the box activates a hammer".

Have fun ! We will have 10 prizes worth Rs. 20,000 for the most complete and detailed engineering assessments of this machine. But only for those who could in addition answer at least 2 of the 3 questions below. Remember that an incandescent light "bulb" converts only **?**% of the energy in coal provided to a power plant to generate a useful energy output.

Tell us the following:

1. Estimate how large is "?" in percent.
2. What is the "useful energy output" of a CFL.
3. Where is the energy lost on its way from coal to electricity consumed by the CFL.

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