

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 3365**  
TO BE ANSWERED ON 25.03.2021

**GENERATION OF CLEAN ELECTRICITY**

3365 # SHRI HARNATH SINGH YADAV:

Will the PRIME MINISTER be pleased to state:

- (a) whether it is a fact that the electricity generated from atomic energy is more clean for human life, other living organisms and environment as compared to the electricity generated from coal, oil, gas, etc., if so, the details thereof;
- (b) whether the water coming out from atomic power plants poses danger to the fishes and other marine creatures; and
- (c) if so, whether Government has conducted any survey in this regard and the details thereof?

**ANSWER**

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

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- (a) Yes, Sir. Nuclear power is clean and environment friendly and does not emit any green house gases or pollutants. The life cycle Green House Gases (GHGs) emissions per kWh are comparable to those of renewables like hydro, wind etc. and about 40-70 times lower than that of fossil fuel based technologies.
- (b) No, Sir. The cooling water system of a nuclear power plant for condensing steam is so designed that the temperature rise over ambient temperature of the water body (Sea, Lake etc.) is well within the limit set by the Ministry of Environment, Forests & Climate Change and does not affect the marine life. The abundance of fish catch around existing nuclear power plants is testimony to this fact.
- (c) Several studies, including Thermo-ecological studies around Madras Atomic Power Station (MAPS), Kalpakkam, Kaiga and Kudankulam by a Department of Atomic Energy – Board of Research in Nuclear Sciences (DAE-BRNS) conducted through two reputed national institutes and six reputed universities have indicated that there is no adverse effect of the nuclear power plants on the fisheries and marine ecology.