

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2473
TO BE ANSWERED ON 21.12.2022

Advanced Fuel Option From Russia

2473. DR. T. SUMATHY (A) THAMIZHACHI THANGAPANDIAN:

Will the PRIME MINISTER be pleased to state:

- (a) whether it is a fact that Russian State owned nuclear energy corporation, Rosatom has offered a more advanced fuel option to Kudankulam Nuclear power plant;
- (b) if so, the details of the proposal including the stage of its deliberation;
- (c) whether it is also a fact that the technology offered will allow the reactors to extend their running cycle without stopping to load fresh fuel;
- (d) whether any test routine has been performed at the Kudankulam power plant and if so, the details thereof; and
- (e) whether any study regarding the environmental impact of the proposed technology has been undertaken if so, the details and the results thereof?

ANSWER

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

- (a) Yes, Sir.
- (b) Russia had offered a more advanced fuel viz. TVS-2M type in place of UTVS type fuel for use in reactors at Unit 1&2 at Kudankulam. After detailed deliberations by experts, considering the better operational performance with TVS-2M type fuel assemblies, it was decided to use TVS-2M fuel in place of UTVS fuel assemblies in Kudankulam Units-1&2.

- (c) Yes, Sir. Use of TVS-2M fuel assemblies in KKNPP reactors will allow 18-month operating cycles as against 12-month operating cycle with UTVS Fuel Assemblies presently in use in Unit-2.

- (d) The first lot of TVS-2M fuel assemblies has been received in May-June 2022 from Russian Federation and loaded in Unit-1. They are performing satisfactorily.

- (e) No, Sir. As the power generation would remain the same, there would be no additional environmental impact with the change in fuel.
