

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE

LOK SABHA
UNSTARRED QUESTION NO. 1353
TO BE ANSWERED ON THE 27TH JULY, 2021

IMPACT OF CHEMICAL FERTILIZERS ON FERTILITY OF LAND

1353. SHRI DULAL CHAND GOSWAMI:

Will the Minister of AGRICULTURE AND FARMERS WELFARE
कृषि और किसान कल्याण मंत्री be pleased to state:

- (a) whether the Government has conducted any research to find out fertility of land being affected due to the excess use of chemical fertilizer and various diseases and other problems caused by it;
- (b) if so, the details thereof;
- (c) the action taken/being taken by the Government on the outcome of said research;
- (d) whether the Government has launched any programme to create awareness/provide training to farmers with regard to the harmful effects of fertilizers and the need for organic farming; and
- (e) if so, the details thereof?

ANSWER

THE MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि और किसान कल्याण मंत्री

(SHRI NARENDRA SINGH TOMAR)

(a) & (b): Yes, Sir. Investigations carried out under All India Coordinated Research Project on 'Long Term Fertilizer Experiments' over five decades at fixed sites have indicated that continuous use of nitrogenous fertilizer alone had deleterious effect on soil health and crop productivity showing deficiencies of other major and micro nutrients. Even with recommended doses of NPK and more, deficiency of micro and secondary nutrients has become yield limiting factor over the years. Deficient nutrient may also affect plant growth and cause plant physiological disorders. There is also possibility of nitrate contamination in groundwater above the permissible limit of 10 mg NO₃-N/L due to excessive/over-use of nitrogenous fertilizers, particularly in light textured soils that has consequence on human/animal health if used for drinking purpose.

(c) ICAR recommends soil test based balanced and integrated nutrient management through conjunctive use of both inorganic and organic sources of plant nutrients to reduce the use of chemical fertilizers, preventing deterioration of soil health, environment and contamination of groundwater. Accordingly, the Government is implementing National Mission on Soil Health Card to provide soil test based fertilizer recommendations to farmers for promoting balanced and integrated nutrient management in the country.

(d) & (e): Yes, Sir. The Government under National Mission on Soil Health Card is educating farmers on soil test based balanced and judicious use of fertilizers. The Government under *Parampragat Krishi Vikas Yojana* (PKVY) and Mission Organic Value Chain Development for North East Region (MOVCD-NER) is providing financial support to states to organize seminars, trainings, awareness camps on organic production, post harvest management, marketing etc. for the benefit of the farmers.
