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(b) No such assistance was sought from the Government of India by these States.

(c) Does not arise.

(d) The financial assistance provided by Government of India during 1990-91 to the State Government of Karnataka and Tamil Nadu exclusively for checking smuggling of Sandalwood has been to the tune of Rs. 20 lakhs and Rs. 40 lakhs respectively.

Pollution by Pesticides

1162. DR. R. MALLU: Will the Minster of ENVIRONMENT AND FORESTS be pleased to state:

(a) whether the Government are aware that Pesticides are causing considerable soil damage and water pollution;

(b) the total quantity of pesticides used in 1960, 1970, 1980 and 1990 indicating the quantities imported and indigenously manufactured;

(c) the estimated annual sales of imported and indigenous pesticides for the years indicated in (b) above;

(d) whether any estimate of human loss due to use of pesticides has been made on account of pest resistance; food contamination; water contamination; poisonings; losses due to soil fertility, bees and earthworms, etc. and

(e) if so, the details thereof and remedial steps proposed to be taken in the matter?

THE MINISTER OF STATE OF THE MINISTRY OF ENVIRONMENT AND FOR-ESTS (SHRI KAMAL NATH): (a) There are no reports of considerable damage to water and land in the country due to pollution from pesticides: thought there are some reports of minor contamination. Regular monitoring of the River Ganga and a few of its tributaries has been started since November, 1986 on a monthly basis by collecting water samples from 27 different locations in U.P., Bihar and West Bengal. The water samples have been analysed for residues of 12 major pesticides and their metabolites/isomers. The analytical data collected so far did not show any definite pattern of variation. The residues of pesticides are also monitored in sediments at 173 stations all along the coast-line of the country.

(b) and (c). Directorate of Plant Protection, quarantine & Storage (PPQAS) has been consolidating information on the consumption of pesticides in the country. As far as sale of imported and indigenously produced pesticides in the country is concerned, it may be considered at par with the following statistics and the consumption of pesticides. As such, the statistics for relevant years are as under:-

(MT Tech. Gr.)

Year	Consumption	Import
1960-61	8,620	N.A.
1970-71	24,320	N.A.
1980-81	45,000	2,486
1990-91	75,000	1,094

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(d) Pesticides being toxic in nature, their misuse/abuse can cause hazards. Cases of accidental and non-accidental nature of pesticides poisoning including deaths of human beings are being reported by the State Governments from time to time. During the last three years i.e. 1988-89 to 1990-91, more than 3,000 case of pesticide poisoning were reported by the State Governments, as per available statistics. There are no chances of human loss due to pesticide resistance in different pests. No separate statistics are available for human loss due to food contamination. However, it is presumed that the statistics on pesticide uosioning cases include cases of human loss due to poisoning/contamination as well. Nevertheless, under the Insecticides Act, 1968 and the Rules tramed thereunder there is a provision of prohibition on admixing of pesticides in foodgrains legally avoiding thereby the phenomenon of pesticide contamination in foodgrains. There are no reports of considerable damage to water in the country due to pollution from pesticides; though there are some reports of minor contamination. No systematic studies are readily available to quantity the losses in soil fertility due to pesticides. However, some pesticides have been reported toxic in earthworm. Considering the usefulness of bees in pollination of crop plants such a study has been made as an important parameter of registration requirement for insecticides under the Insecticides Act. 1968.

(e) The Government has taken a number of steps to prevent the health hazards due to use/abuse of pesticides. The pesticides which are safe to human beings, animals and the environment, are allowed to be registered for use in the country. Farmers are trained in safe and judicious use of pesticides by Extension Officers of the Government and other voluntary agencies. As a preventive measure, many of the extremely toxic pesticides have been banned or refused registration. To reduce/minimise the over-dependence on pesticides, Government have adopted Integrated Pest Management approach which *inter-alia* includes need-based application of pesticides at economic threshold levels of pets and diseases. Considerable attention is being paid to this concept of pest control which encompasses the use of cultural, mechanical and biological measures and only limited use of pesticides wherever necessary.

Indo-Venezueian Cuitural Agreement, 1984

1163. SHRI BUOY KRISHNA HAN-DIQUE: Will the Minister of HUMAN RE-SOURCE DEVELOPMENT be pleased to state:

(a) the salient features of Indo-Venezuelan Cultural Agreement, 1984;

(b) the progress made so far in its implementation;

(c) whether any initiatives have been under way to achieve joint collaboration in the fields of agriculture, oil technology and bio-medicine; and

(d) if so, the details thereof?

THE MINISTER OF HUMAN RE-SOURCE DEVELOPMENT (SHRI ARJUN SINGH): (a) The Indo-Venezuelan Cultural Agreement signed on 13.9.1984 provides for promotion of better mutual understanding in the fields of art, literature, education, history, sports and other cultural and academic disciplines.

(b) Efforts are underway to conclude an executive programme of cultural exchanges with Venezuela.

(c) and (d). Do not arise as joint collaboration in these fields are not covered by the Cultural Agreement.