

- (ii) Shri Ram Sahai, son of Shri Devi Sahai resident of House No. 13, Baba Farid Puri, West Patel Nagar, New Delhi has filed a suit in the Court of Senior Sub-Judge, Delhi praying that H.No.A-13, Baba Farid Puri, West Patel Nagar, New Delhi, should not be demolished. The case is being defended as the house has been constructed on Defence land.

Status Report on Natural Computer Languages

4040. SHRI RATILAL KALIDAS VARMA: Will the PRIME MINISTER be pleased to state:

(a) whether Sanskrit gives us clues to design computer based systems for natural language understanding and translation and vedic mathematics gives us clues for designing graphic software and basic processing units; if so, the details thereof;

(b) the conclusions of various workshops held on these topics and the programme identified for this purpose;

(c) whether there is any status report on these topics and if so, the details thereof; and

(d) if not, the reasons therefor and the time by which such report will be prepared and made available?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (PROF. M.G.K. MENON): (a) and (b). The Workshop on Sanskrit and natural language understanding held in Bangalore in 1986 had considered the investigations on Sanskrit for natural language understanding in computers. As a sequel to this, projects on *sanskrit Tutoring system* are currently under

way at Centre for Development of Advanced Computing (C-DAC), Pune and Jawaharlal Nehru University, New Delhi, which are expected to provide clues to the natural language understanding and translation. Computer scientists and Sanskrit language scholars have been brought together for this and this effort will be increased.

There is no project at present on the use of Vedic Mathematics for designing graphics software and basic processing units.

(c) The following reports have been prepared on this topic:

(i) Synthesis of advanced computing technology and Sanskrit.

(ii) Sanskrit and Computers.

(iii) Paninian model for intelligent natural language processing.

(iv) Role of Sanskrit-Pratyayas in natural language processing.

(v) Sanskrit sentence parser

(vi) Paninian Grammar Platform

(d) Does not arise.

Software Packages

4041. SHRI RAJVEER SINGH: Will the PRIME MINISTER be pleased to state:

(a) whether software packages of UNIX operating system are much more expensive than similar ones around MS-DOS, and the licence fee drains out as foreign exchange;

(b) if so, the details thereof;

(c) the economic justification for introducing UNIX basis software even when usages of DOS based software has not

matured in Government offices and the computer utilisation factor is very low;

(d) the details of utilisation factor, number of Personal Computers in various Government offices, the prices of hardware and software; and.

(e) the percentage of the personal Computers in Government Departments having facilities for bi-lingual processing with MS-DOS and with UNIX operating systems?

THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND MINISTER OF STATE IN THE MINISTRY OF PROGRAMME IMPLEMENTATION (SHRI BHAGEY GOBARDHAN): (a) No, Sir. The UNIX Operating System is basically for multiple Users whereas MS-DOS is for a single user. The two systems are not comparable. However, on the basis of the cost per terminal, UNIX Operating System together with associated system software is cheaper than those based on MS-DOS.

(b) Does not arise.

(c) The economic justification for using UNIX based software is in multi-user situations or as part of a large network or is for getting the best out of 32 bit super micro and super mini computers.

(d) and (e). Information is being compiled.

Inadequate Schools in Mahur Vihar

4042. SHRI ERA ANBARASU: Will the PRIME MINISTER be pleased to state:

(a) whether Mayur Vihar (Phase I) is not provided with adequate number of schools with the result that the students of Mayur Vihar are forced to go out to NOIDA and New Delhi for their education in large

numbers when the need of the hour is "Conserve energy/petrol";

(b) whether the Delhi Development Authority is constructing residential flats in the place earmarked for the schools in Mayur Vihar is already starving for schools; and

(c) whether the Government propose to direct Delhi Development Authority for allotment of land for construction of Public Schools and Kendriya Vidyalayas?

THE MINISTER OF STATE IN THE MINISTRY OF HUMAN RESOURCE DEVELOPMENT (SHRI CHIMANBHAI MEHTA): (a) According to the information furnished by the Delhi Administration, adequate educational facilities are already available in Mayur Vihar Phase-I. There are two Govt. Senior Secondary Schools, two Public Middle Schools, besides there are 11 more Govt. schools situated in the locality within a distance of 3 to 5 KMs.

(b) and (c). Do not arise.

Manufacture of TV Sets

4043. SHRI RAM DAS SINGH: Will the PRIME MINISTER be pleased to state:

(a) whether under the TV policy all the sectors of the industry namely small scale sector and organised sector including MRTP and foreign equity companies with foreign equity not exceeding 40% are allowed to manufacture TV sets;

(b) the details of the companies manufacturing B & W and CTV in the small scale sector and in the organised sector including MRTP and foreign equity companies at the production of each unit during the year 1989-90; and

(c) the specific incentives Government have given to them so far?