

(b) if so, whether such Committees have been constituted in all the States including Uttar Pradesh; and

(c) if so, the steps proposed to be taken in order to make the working of these committees more effective ?

THE MINISTER OF PROGRAMME IMPLEMENTATION (SHRI A.B.A. GHANI KHAN CHOUDHURY) : (a) and (b). Implementation and monitoring committees for the 20-Point Programme have been set-up in all the States including U.P. at the district and block/taluka levels. Non-official people's representatives are represented on these committees.

(c) No fresh steps are proposed to be taken.

[English]

Launching of Remote Sensing Satellite

6011. SHRIMATI JAYANTI PATNAIK : Will the PRIME MINISTER be pleased to state :

(a) whether Government have made efforts to launch remote sensing satellite; and

(b) if so, what specific steps have been taken in this regard ?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND IN THE DEPARTMENTS OF OCEAN DEVELOPMENT, ATOMIC ENERGY, ELECTRONICS AND SPACE (SHRI SHIVRAJ V. PATIL) : (a) Yes, Sir.

(b) The experimental remote sensing satellites, Bhaskara-1 and Bhaskara-2 were launched in collaboration with USSR in 1979 and 1981 respectively. These two satellites were used to take imageries over India in optical, near infra-red and microwave regions. The resolution being coarser of the order of 1 km., the imageries were extensively used for studying snow run-off, large water and land masses, geological features and ocean surface studies. In addition, the Rohini satellites launched by SLV-3 carried experimental remote sensing

payloads. Through the experience gained from these satellites and the use of data from other satellites, a semi-operational state of art, the Indian Remote Sensing Satellite was conceived to take imageries with a fine resolution of about 36 metres and 75 metres.

The Indian Remote Sensing (IRS) Satellite System is tailored to the needs of Indian resources survey and management, laying stress on agriculture, water management, forestry, geology land use planning, etc. The development of an Indian Remote Sensing (IRS) Satellite for the effective utilisation of remote sensing technology and the establishment of a National Natural Resources Management System (NNRMS) are in progress. The launch of the first, semi-operational spacecraft of the series will be from abroad in 1987. The Polar Satellite Launch Vehicle (PSLV) is being developed for the launch of IRS-class satellites. The first developmental flight of PSLV is expected to be in 1989-90.

Indo-USSR Cooperation in Electronics

6012. SHRIMATI JAYANTI PATNAIK : Will the PRIME MINISTER be pleased to state :

(a) whether Government have established cooperation in the field of electronics and computers with the USSR;

(b) if so, how many years' agreement has been signed with USSR on the above matter; and

(c) the steps taken by Government to expand Indo-USSR ties for the growth of electronics and computers ?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND IN THE DEPARTMENTS OF OCEAN DEVELOPMENT, ATOMIC ENERGY, ELECTRONICS AND SPACE (SHRI SHIVRAJ V. PATIL) : (a) Yes, Sir. A Working Programme of Cooperation between India and USSR in Computers and Electronics has been signed.

(b) The Working Programme of Cooperation is for the Five Year Period 1986-90.