

— increase in the outlay for Science and Technology sector in successive Five Year Plans.

— Creation of new scientific Departments/Organisations.

— Setting up of more centres of excellence/advanced studies in Universities and academic institutions.

— Creation of core groups of professionals with necessary modern facilities required for pursuing research in new and frontier areas of Science.

— S&T based training for entrepreneurial development.

— Delegation of enhanced administrative and financial powers to S&T institutions to improve working conditions of scientists.

— Manpower development training/retraining programmes through associateships / fellowships / courses.

— Provisions for temporary placement of Scientists and Technocrats under the scheme of Scientists Pool.

— Creation of supernumerary Posts.

— Invitation to distinguished men and women of Indian origin settled abroad for short term technical assignments to assist in frontier and emerging areas of S&T.

#### **Expenditure incurred on ESTSIAT-2A**

4846 SHRI MOHINDER SINGH LATHER: Will the PRIME MINISTER be pleased to state;

(a) what is the total expenditure incurred on the launching of INSAT-2A-

(b) whether all the components used in it have been indigenously manufactured; and

(c) if not the percentage of indigenous and imported components used therein?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY, DEPARTMENT OF ELECTRONICS AND DEPARTMENT OF OCEAN DEVELOPMENT AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS (SHRI P. R. KUMARAMANGALAM): (a) The approved outlay for the INSAT-2A and INSAT-2B excluding launch services is Rs. 329.94 crores out of which Rs. 63.20 crores is meant for Launch All Risk Insurance Premium for INSAT-2A, 2B and 2C Rs. 110.83 crores for facility establishment (programme elements). The approved outlay for the launch services for INSAT-2A and INSAT-2B is Rs. 198.30 crores.

(b) and (c) Excepting for one momentum wheel and a few small sub-assemblies, all the sub-assemblies have been totally designed and built indigenously. However, the piece parts such as basic semi-conductor devices, integrated circuits solar cells and some materials, etc., required for fabricating sub-assemblies have been imported; since Space Qualified version of such items are not available from within the country.