

respectively. These satellites use the state of the art imaging technology, and the data from these satellites are among the best in the world today. IRS-IC and IRS-P3 are planned to be launched this year and IRS-ID and IRS-P4 to P-6 are planned to be launched in the next few years.

(b) and (c) Antrix Corporation and EOSAT Co. have entered into a ten years cooperative agreement by which they will work together for the promotion of establishment of IRS ground stations in different parts of the world and the sale of data from the IRS satellites.

The data from the IRS satellites is being used widely in various applications in natural resources management such as forest mapping, wasteland mapping, ground water targetting, crop yield estimation, flood mapping, drought monitoring, coastal zone mapping and integrated mission for sustainable development.

#### Improvement in Satellites

1234. SHRI RATILAL VARMA: Will the PRIME MINISTER be pleased to state:

(a) whether transponders available with the Indian satellites require improvement;

(b) if so, the details of improvements; and

(c) if not, the details of loss, if any?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE AND MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY AND DEPARTMENT OF SPACE AND MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI BHUVNESH CHATURVEDI): (a) and (b) Indian National Satellites (INSAT) have been designed to cater to the domestic telecommunications, television and meteorological services needs. The INSAT satellites are meeting these service requirements satisfactorily. INSAT satellites are constantly upgraded for improved coverage and power requirements and use contemporary technology.

(c) Does not arise.

[Translation]

#### Generation of Energy From NCEs

1235. SHRI N. J. RATHVA: Will the PRIME MINISTER be pleased to state:

(a) whether foreign companies are being invited or assistance is being sought from them for power generation through non-conventional energy resources in Gujarat; and

(b) if so, the details of such companies?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICAL AND FERTILIZERS AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND MINISTER OF STATE IN THE DEPARTMENT OF ELECTRONICS AND DEPARTMENT OF OCEANS DEVELOPMENT (SHRI EDUARDO FALEIRO): (a) and (b): Private sector investment for foreign companies in the field of non-conventional energy is being explored by the Ministry of

Non-Conventional Energy Sources. The Sun source (I) Limited has entered into a collaboration with Cannon Power Corporation, USA, for establishment of a wind farm in Gujarat. The company's proposal has been cleared by Foreign Investment Promotion Board, Department of Industrial Development in January, 1994. In addition, Sea West, USA, Enercon, Germany, Windia, Netherland, Incola International, Switzerland, have shown interest in setting up of wind power generation projects in Gujarat. Besides, eight companies have given technology offers for 900 MW Kutch HYdel Project in Gujarat.

#### Budgetary Allocation for Ayurveda

1236. SHRI SANTOSH KUMAR GANGWAR: Will the PRIME MINISTER be pleased to state:

(a) whether the Government propose to enhance the budgetary allocation for research-work, education, practice and other works related to development of Ayurveda system of medicines;

(b) if so, the extent to which it has been raised; and

(c) the scheme formulated for the development of Ayurvedic system of medicine?

THE DEPUTY MINISTER IN THE MINISTRY OF HEALTH AND FAMILY WELFARE (SHRI PABAN SINGH GHATOWAR): (a) to (c) A separate Department of Indian System of Medicine and Homoeopathy has been created for development of Ayurveda and other Indian System of Medicine and Homoeopathy. This has been done with a view to focus on the promotion, propagation and development of Ayurveda and other Indian System of Medicine and Homoeopathy. An additional outlay for the new department has been proposed which is to be utilised in the remaining part of the 8th Five Year plan.

#### Research by Tata Energy Research Institute

1237. SHRI R. JEEVARATHINAM: Will the PRIME MINISTER be pleased to state:

(a) Whether the research has been is/being carried out by the sector Tata Energy Research Institute in Delhi in regard to power;

(b) if so, the details and the outcome thereof; and

(c) the assistance provided by the Government in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND MINISTER OF STATE IN THE DEPARTMENT OF ELECTRONICS AND DEPARTMENT OF OCEAN DEVELOPMENT (SHRI EDUARDO FALEIRO): (a) to (c) Yes, Sir. The Institute has executed 24 projects funded by various Ministries/Departments/Organisations of the Govt. in the last ten years. Out of which three are still on going and remaining have been successfully completed. These projects are mainly in the areas of policy analysis on energy and environment, rural energy, renewable energy technologies, energy

conservation, training and information dissemination, feasibility studies, power sector efficiency etc.

[English]

### Nuclear Power Plant

1238. PROF. RASA SINGH RAWAT : Will the PRIME MINISTER be pleased to state:

(a) the year-wise quantum of power generated through nuclear power plants during the last three years, plant-wise;

(b) the number of occasions when these nuclear reactors went out of order during the last three years and the extent of loss of power generation caused as a result thereof;

(c) whether the causes of frequent failures of these nuclear plants and reactors have been identified;

(d) if so, the details thereof; and

(e) the measures taken by the Government to ensure regular functioning of these nuclear power plants in future?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE AND MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY AND DEPARTMENT OF SPACE AND MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI BHUVNESH CHATURVEDI):

(a) The year-wise and plant-wise nuclear power generation during the financial years 1992-93, 1993-94 and 1994-95 upto 31st January 1995 is as follows:

Unit	1992-93 (MUs)	1993-94 (MUs)	1994-95 (MUs) (upto 31.1.95)
TAPS-1	1146	898	323
TAPS-2	788	925	794
RAPS-1	133	163	0
RAPS-2	925	1097	410
MAPS-1	1191	373	997
MAPS-2	787	1016	1011
NAPS-1	1031	0	85
NAPS-2	648*	335	765
KAPS-1	②	621	183

† RAPS-2 has been shut down since 1 August 1994 for inservice inspection of coolant channels.

\* NAPS-2 began commercial operation from 1 July 1992.

② KAPS-1 began commercial operation from 6 May 1993.

MU	: Million Units
TAPS-1	: Tarapur Atomic Power Station Unit-1
TAPS-2	: Tarapur Atomic Power Station Unit-2
RAPS-1	: Rajasthan Atomic Power Station Unit-1
RAPS-2	: Rajasthan Atomic Power Station Unit-2
MAPS-1	: Madras Atomic Power Station Unit-1
MAPS-2	: Madras Atomic Power Station Unit-2
NAPS-1	: Narora Atomic Power Station Unit-1
NAPS-2	: Narora Atomic Power Station Unit- 2
KAPS-1	: Kakrapar Atomic Power Station Unit-1

(b) RAPS-1 has had to be shut down since February 1992 owing to a heavy water leakage that involves complicated repairs. The other plants had 191 unplanned outages of cover 24 hours duration between 1992-95. NAPS-1 has been shut down since March 1993 following a fire in its turbine generator.

Excluding the loss of generation in regard to NAPS-1 during 1993-94 and 1994-95, the unplanned outages have resulted in loss of generation of about 4030 MUs.

(c) and (d) The outages of nuclear power plants have been mainly due to the disturbances of the grid to which they are connected and problems with the turbine generators.

(e) A joint task force consisting of personnel from the Nuclear Power Corporation and BHEL reviewed the problems involved. Various other performance improvement schemes are being implemented including an islanding scheme in RAPS and in some of the other power stations, condition monitoring, preventive and predictive maintenance and ongoing training of operating and maintenance personnel.

### AIDS Control

1239. SHRI DATTATRAYA BANDARU: Will the PRIME MINISTER be pleased to state:

(a) the number of H.I.V. (Positive) patients detected so far in Andhra Pradesh.

(b) the hospitals in Andhra Pradesh where AIDS screening facilities are available;

(c) whether any AIDS Control Programme is being undertaken in the States either by Union Government or with the help of some foreign assistance; and

(d) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND FAMILY WELFARE (DR. C. SILVERA): (a) As on 28th February, 1995, 143 cases have been detected in Andhra Pradesh.

(b) The requisite information is given in the enclosed Statement.

(c) & (d) With soft loan from World Bank and technical assistance from WHO, a comprehensive programme for the prevention and control of AIDS is currently under implementation as a centrally sponsored scheme throughout the country including Andhra Pradesh. The strategies of the programme consists of generation of awareness among amongst masses about HIV/AIDS and behaviour change, control of Sexually transmitted diseases, blood safety and rational use of blood and blood products, better surveillance and diagnosis and clinical management of HIV/AIDS cases.

### STATEMENT

*Hospitals in Andhra Pradesh where AIDS Screening Facilities are Available*

#### SURVEILLANCE CENTRES

1. Deptt. of Microbiology, Osmania College, Hyderabad.
2. Deptt. of Microbiology, SV Medical College, Tirupati.
3. Deptt. of Microbiology, Andhra Medical College,

Visahakapatnam.

4. Institute of Preventive Medicine, Hyderabad.

#### ZONAL BLOOD TESTING CENTRES

1. Blood Bank, Gandhi Hospital, Hyderabad
2. Blood Bank, M.S. Cancer Hospital, Hyderabad.
3. Blood Bank, Nizam's IMS, Hyderabad
4. Blood Bank, Institute of Preventive Medicine, Hyderabad.