

NICS (SHRI C. P. N. SINGH): (a) No, Sir.

(b) Does not arise.

Alternative sources of Energy

339. SHRI KALP NATH RAI: Will the PRIME MINISTER be pleased to state;

(a) whether a commission is being to be set up to explore and exploit alternative sources of energy;

(b) what are those alternative sources of energy; and

(c) whether any step has been taken by Government for its implementation?

THE MINISTER OF STATE IN THE DEPARTMENTS OF SCIENCE AND TECHNOLOGY AND ELECTRONICS (SHRI C. P. N. SINGH): (a) Government have decided to establish an Alternative Energies Commission to coordinate and intensify research and development activities in new and renewable sources of energy.

(b) the Commission is expected to promote programmes in the areas of solar energy, wind energy and biomass and bioconversion technology;

(c) A Statement on the programmes undertaken by the Department of Science & Technology for the development and utilization of alternative sources of energy is attached. [Vide cols. 90 to 92 supra in reply to the Unstarred Question 337 (b)].

Purchase of Jaguar Plane

340. SHRI KALP NATH RAI: Will the Minister of DEFENCE be pleased to state:

(a) the number of Jaguars that have been purchased by the I.A.F. and how many more are proposed to be purchased in the near future; and

(b) what is the net cost of a Jaguar plane?

THE MINISTER OF STATE IN THE MINISTRY OF DEFENCE (SHRI SHIVRAJ V. PATIL): (a) It is not in public interest to divulge this information.

(b) The cost of the aircraft varies from aircraft to aircraft and is dependent on the date of delivery of the aircraft.

Production of passenger cars by Maruti Ltd.

341. SHRI GHOUSE MOHIUDDIN SHEIKH: Will the Minister of INDUSTRY be pleased to state:

(a) whether the Maruti Ltd. is expected to start production of passenger cars by 1983;

(b) whether these cars are proposed to be marketed internally or would be exported; and

(c) whether Government propose to get foreign know-how for the car if so, the details in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF INDUSTRY (SHRI CHARANJIT CHANANA): (a) Yes, Sir.

(b) It is proposed to market the cars in India and also to export them.

(c) Proposals have been invited from various overseas Automobile Manufacturers for collaboration on the proposed automobile project for the manufacture of passenger cars and commercial vehicles. A decision on entering into collaboration with the appropriate party will be taken on merits and after examining proposals that may be received.

Science Reporter and Science-Ki-Duniya Magazines

342. SHRIMATI PREMILABAI DAJISAHEB CHAVAN: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that the Editors of the Science Reporter and Science-Ki-Duniya are stationed at

Rafi Marg, New Delhi, while their total staff is working at a distance of 5 miles from them; and

(b) if so, the reasons therefor?

THE MINISTER OF STATE IN THE DEPARTMENTS OF SCIENCE AND TECHNOLOGY AND ELECTRONICS (SHRI C. P. N. SINGH): (a) and (b) Science Reporter and Science-Ki-Duniya are part of the Publications and Information Directorate of CSIR which is located at Hillside Road, New Delhi. Since the Editor, Science Reporter, is also the Chief Public Relations Officer of CSIR and the Editor, Science-Ki-Duniya, is the Urdu Press Relations Officer, CSIR, they have been provided accommodation at the CSIR Headquarters as long as they continue to perform these responsibilities in the public interest.

343. [Transferred to the 24th February, 1981].

Japanese Plan to Internationalise its small industry

344. SHRI VIREN J. SHAH: Will the Minister of INDUSTRY be pleased to state:

(a) whether Government's attention has been drawn to a report which appeared in the *Times of India*, Bombay Edition, of January 7, 1981 entitled 'Japanese Plan' to Internationalise its small industry;

(b) whether Government have formulated any plans to utilise the expert service being offered by the Japan Overseas Development Corporation, an affiliate of the Japanese Ministry of International Trade and Industry; and

(c) if the reply to part (b) above be in the affirmative, the salient features of the Plan?

THE MINISTER OF STATE IN THE MINISTRY OF INDUSTRY (SHRI CHARANJIT CHANANA): (a) Yes, Sir.

(b) and (c) No proposals have so far been received by the Ministry of Industry from the Japanese side in this regard.

Solar Energy for Domestic purposes

345. SHRI R. R. MORARKA: Will the PRIME MINISTER be pleased to state:

(a) what is the further progress made in harnessing the solar energy for domestic use;

(b) whether any degree of perfection has been achieved in the technique developed by Central Electronics Engineering Research Institute, Pilani; and

(c) which are the other institutions engaged in similar research?

THE MINISTER OF STATE IN THE DEPARTMENTS OF SCIENCE AND TECHNOLOGY AND ELECTRONICS (SHRI C. P. N. SINGH): (a) Technology for domestic water heating systems have been developed and are ready for commercialization. Solar photovoltaic systems which can be used for lighting, radio and TV have also been developed; their costs are still to be reduced. Biogas plants to meet domestic requirements for cooking, lighting and motive power are available, and their installation is being expanded.

(b) The Central Electronics Engineering Research Institute, Pilani has been working on the development of solar panels using high efficiency solar cells with optically concentrated sunlight. This work is in progress.

(c) Other institutions engaged in the research and development pertaining to solar cells and photovoltaic systems are:

1. Central Electronics Limited, Sahibabad.

2. Indian Institute of Technology, Kanpur.

3. Indian Institute of Technology, Delhi.