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[English]

Upper Thunga Project

5207. SHRI OSCAR FERNANDES:
SHRI KODAKANI GOWDANA
SHIVAPPA:

Will the Minister of WATER RESOURCES be pleased to state

(a) whether the Union Government have received the modified Upper Thunga Project report from the Government of Karnataka for techno-economic appraisal;

(b) if so, the details thereof;

(c) the time by which approval is likely to be accorded; and

(d) the estimated amount likely to be spent on the project along with the share of the Union Government thereon?

THE MINISTER OF WATER RESOURCES (SHRI VIDYACHARAN SHUKLA) : (a) to (d). The modified Upper Thunga Project Report estimated to cost Rs. 379.87 crores and envisaging annual irrigation of 94,698 hectares has been received recently in February, 1992. As per the present policy, irrigation projects are funded by the State Governments themselves out of their plan resources.

Tapping Non-Conventional Energy

5208. SHRI AMAL DATTA: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY be pleased to state:

(a) the progress made so far in tapping non-conventional energy;

(b) the experience with regard to capital cost and running cost per unit of energy; and

(c) the details of programme for extension of non-conventional energy?

THE MINISTER OF STATE IN THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI) : (a) For tapping non-conventional energy sources, a comprehensive programme of research, development, demonstration and dissemination of new and renewable energy systems and devices has been taken-up in the country. These programmes are being implemented through various State Governments and implementing agencies, besides autonomous institutions and research organisations. Attached Statement brings out status of progress made in the implementation of various types of non-conventional energy systems and devices.

(b) Many of the new and renewable energy systems and devices are becoming more and more popular and cost effective with the assistance and efforts made by the Central and State Governments/Nodal Agencies and Research Organisations. Capital cost of some of the systems apparently appears high when compared with conventional energy systems. However, a critical socio-economic cost analysis including direct and indirect costs together with cost to the society and overall environmental cost, most of the non-conventional energy systems and devices may prove to be cost effective in the long run. Further, in a few cases where the technology is in the process of development, the same may become cost effective in case the availability of some of the conventional energy sources reaches near exhaustion limits over a period of time in the future.

New and renewable energy sources such as, sun, wind and water being free, the running cost towards fuel is generally negligible. However, as many of these systems are installed generally in the open atmosphere, appropriate and adequate maintenance is required to be provided.

(c) The Government is encouraging development, production and wider use of new and renewable energy sources for various types of centralised as well as decentralised applications. Research devel-