

4. Utilization of Solar Energy.

5. M. H. D. Power Generation (basic & laboratory studies)

6. Laser Induced Fusion (basic studies)

(II) Achievements:

1. (i) Strategy for optimal utilization of hydroelectric and thermal resources has been worked out.

(ii) Failure analysis of Badarpur Power Plant has been completed.

(iii) Simulation studies on behaviour of electrical energy systems have been made.

2. (i) Laboratory scale liquification at atmospheric pressure by solvent extraction process has been achieved.

(ii) Pilot Plant studies and design of larger plants (on consultancy basis) for fluidized-bed coal combustion have been undertaken.

3. Use of biogas, alcohol, hydrogen, ammonia etc. in I.C. engines has been intensively investigated and standardized.

4. (i) Development of Selective coatings.

(ii) Development of fresnel concentrators.

(iii) Development of photovoltaic cells by spray technique.

(iv) Solar Hot water/Hot air systems have been developed.

(v) Low cost high yield solar still has been standardized.

(vi) Use of solar energy in architecture has been studied and many useful results obtained (some in collaboration with Central Buildings Research Institute, Roorkee).

(vii) Solar refrigeration device have been developed including a

machine to produce 10 Kg. of ice per day.

5. Analytical and small scale laboratory Studies in support of the national programmes in these areas have been carried out.

6. A post-graduate course on "Energy Studies" will start next July, 1980.

Telephone Directories for Metropolitan cities

132. SHRIMATI SUSHILA SHANKAR ADIVAREKAR: Will the Minister of COMMUNICATIONS be pleased to state:

(a) when were the latest telephone directories for Delhi, Bombay, Calcutta and Madras issued;

(b) what are the reasons for long time gap between publication of one edition and the other in spite of computerisation and huge payments made to Tata Group for compilation and printing of directories; and

(c) what are the firm dates for the issue of new telephone directories in these metropolitan cities?

THE MINISTER OF COMMUNICATIONS (SHRI C. M. STEPHEN): (a)

(i) *Delhi*—The current issue was published in April, 79. A changed number list supplement was brought out in January, 1980.

(ii) *Calcutta*—The current issue was published in May, 1978. The first supplement was brought out in November, 78 and the second in August, 1979.

(iii) *Bombay*—The current issue was published in September 1979. A changed number supplement was brought out in January, 1980 and a second supplement is under print.

(iv) *Madras*—The current issue was published in November, 1978. Two supplements are brought out in March, 1979 and March, 1980.

(b) The main reason for the delay in the printing of directories in all these cases is non-availability of paper during 1979. Shortage of power and strike in the printing press in Calcutta are also two of the factors.

(c) (i) *Delhi*—The next issue is likely to be published by December, 1980.

(ii) *Calcutta*—The next issue is likely to be published by December, 1980.

(iii) *Bombay*—The next issue is likely to be published by May, 1981.

(iv) *Madras*—The next issue is likely to be published by December, 1981.

Financial assistance to drought affected States

133. SHRI N. K. P. SALVE: Will the Minister of AGRICULTURE be pleased to state:

(a) the details of the drought relief aid given to the different drought affected States during the past four months;

(b) what steps Government have taken to ensure that this drought relief is utilised properly and for the purpose for which it is allocated; and

(c) what is the total number of people and the families who have received the benefits of the drought relief measures in each State under different schemes?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI R. V. SWAMINATHAN): (a) A statement is attached. [See Appendix CXIV, Annexure No. 11]

(b) The Government of India had decided in pursuance of the recom-

mendations of the Public Accounts Committee, to depute Review Teams to the States for reviewing the utilisation of Central assistance given to them, for relief of distress due to natural calamities. However, the Central Teams which visit States to assess the damage caused by natural calamities, make to the extent possible broad review of the progress of expenditure of Central assistance made available earlier.

(c) Information is being collected and will be laid on the House.

Drought in States

134. SHRI BISHAMBHAR NATH PANDE: Will the Minister of AGRICULTURE be pleased to state:

(a) whether it is a fact that several States in the country are facing unprecedented drought conditions;

(b) if so, which are the States and how many people and heads of cattle are being affected by drought?

(c) what steps Government have taken to meet the calamity; and

(d) what will be the short-fall in the production of foodgrains during the current year on account of the drought?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI R. V. SWAMINATHAN): (a) Yes, Sir.

(b) During 1979-80, 11 states, namely Andhra Pradesh, Bihar, Orissa, Madhya Pradesh, Uttar Pradesh, Haryana, Himachal Pradesh, Rajasthan, Maharashtra, West Bengal and Jammu & Kashmir were affected by drought involving 220 million people and 123 million heads of cattle. During 1980-81, 8 states, namely, Andhra Pradesh, Uttar Pradesh, Rajasthan, Himachal Pradesh and Gujarat sought central assistance as being affected by drought conditions. Nearly 206 million people and 127 million heads of cattle are reported to be affected.