(ख) इन जिलों में उद्योगों का विकास करने के लिए राज्य सरकार को 1964-65 में 4 करोड़ रुपए की विशेष सहायता दी गई थी। इसके बाद, राज्य सरकार द्वारा स्वयं अपनी योजना में अपेक्षित व्यवस्था की जानी थी।

बुन्देलखण्ड विकास समिति की स्थापना

4106. **श्री लक्ष्मीनारायण नायक :** क्या योजना मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या केन्द्रीय सरकार ने बुन्देलखण्ड विकास समिति (उत्तर प्रदेश और मध्य प्रदेश) बनाई है ;

(ख) यदि हां, तो इसके सदस्यों के नाम क्या हैं ;

(ग) इस समिति की किस-किस तिथि को बैठकें हुईं; और

(घ) उनमें क्या निर्णय किए गए ?

प्रधान मन्त्री (श्री मोरारजी देसाई) : (क) जी हां ।

(ख) समिति की संरचना इस प्रकार है :

योजना आयोग

सलाहकर (पी० ए०)—अध्यक्ष

उत्तर प्रदेश सरकार

आयुक्त, बुन्देलखण्ड प्रभाग, झांसी ।

अधीक्षक अभियंता, सिंचाई विभाग, लखनऊ ।

मुख्य अभियंता, राज्य बिजली बोर्ड, लखनऊ ।

अपर मुख्य अभियंता, सार्वजनिक निर्माण विभाग (सड़क), लखनऊ ।

आयुक्त एवं योजना सचिव, योजना विभाग, लखनऊ ।

मध्य प्रदेश सरकार

योजना सचिव

आयुक्त, सागर प्रभाग, सागर

विशेषकार्य अधिकारी

(ई० और एस०, मुख्य मंत्री का सचिवालय)

(ग) समिति की दिनांक 1 दिसम्बर, 1972 और 6 दिसम्बर, 1974 को दो बैठकें हुई थीं ।

(घ) समिति का स्वरूप एक सलाहकार निकाय का है । उपर्युक्त दोनों बैठकों में समिति ने सम्बन्धित राज्य सरकारों को जो सिफारिशें की थीं वे संलग्न सूची में बताई गई हैं । [ग्रन्थालय में रखी गई । देखिए संख्या L T-768/77]

Development of Roads in Orissa

4107. SHRI D. AMAT: Will the Minister of SHIPPING AND TRANSPORT be pleased to state the amount proposed to be given to Orissa for development and construction of roads in the State during the year 1977-78?

THE PRIME MINISTER (SHRI MORARJI DESAI): For expenditure during April-July, 1977, out of the funds voted on account a sum of Rs. 144.44 lakhs has been released by the Central Government for the purpose.

2. As regards funds for the remaining period of the year, the provisions would be intimated after the demands for grants have been passed by Parliament.

Research and Development of Solar Energy

4108. SHRI DHARAMA VIR VASISHT: Will the Minister of ENERGY be pleased to refer to the reply given to Unstarred Question No. 137 on the 6th April, 1977 regarding utilisation of solar energy and state the names of universities, public undertakings

and private organisations working on the research and development of solar energy together with breakthrough if any achieved during years 1975-76 and 1976-77?

THE MINISTER OF ENERGY (SHRI P. RAMACHANDRAN): A statement giving the requisite information is attached.

Statement

Principal Academic Institutions, Research Organisations, Public Sector Undertakings and Private Organisations working on research and Development of Solar energy.

Institution	Area of Research
I. *Universities and Academic Institutions*	
1. Indian Institute of Technology, Delhi	Solar collectors, Solar cells, Solar refrigeration, Solar water heaters.
2. Indian Institute of Technology, Madras	Solar refrigeration and air conditioning, Solar Power generation.
3. Indian Institute of Technology, Kanpur	Solar collectors, Solar cells, Solar stills, Solar pumps.
4 Punjab Agricultural University, Ludhiana	Solar collectors, Solar Pumps Solar driers.
5 Annamlai University, Chidambaram	Solar grain driers and Water heaters.
6 Motilal Nehru Regional Engineering College, Allahabad.	Solar collectors, Fresnel lenses, Solar Water heaters.
7 Birla Institute of Technology and Science, Pilani	Solar collectors, Solar Pumps.
8 Indian Institute of Science, Bangalore	Solar collectors.
9 Indian Institute of Technology, Bombay	Solar collectors, Solar Pumps.
10 Indian Institute of Technology, Kharagpur	Solar driers, Solar Water heaters.
11 University of Roorkee	Solar cooling and air-conditioning, space heating.
12 Bangalore Agricultural University, Bangalore	Solar drying.
13 Jadhavpur University, Calcutta	Solar collectors, Solar cells.
II. *Research Organisations and Public Sector Undertakings*	
1 Central Arid Zone Research Institute, Jodhpur	Solar collectors, Solar Water heaters, Solar Space heating, Solar pumps.

	Institution	Area of Research
2	National Physical Laboratory, New Delhi	Solar collectors, Solar Pumps Solar cells, Solar Water heating.
3	Forest Research Institute, Dehradun	Solar Kilns for timber drying.
4	Central Salt & Marine Chemicals Research Institute, Bhavnagar.	Solar collectors, Solar Stil Solar Pumps.
5	Auroville Centre of Environmental Studies, Pondicherry.	Solar pump, Solar Space heating, Solar Ovens, Eco house.
6	Central Building Research Institute, Roorkee	Solar Water heaters, Space heating.
7	Central Electronics and Electrical Research institute, Pilani.	Solar cells.
8	Defence Science Laboratory, Jodhpur	Solar Space heating.
9	Solid State Physics Laboratory, New Delhi	Solar Cells.
10	Space Technology Centre, Trivandrum	Solar Cells.
11	Bhabha Atomic Research Centre	Solar collectors.
12	Tata Institute of Fundamental Research Radio Astronomy Centre, Ootacamand	Solar Collectors.
13	Central Mechanical Engineering Research Institute, Durgapur	Solar Pumps.
14	Bharat Heavy Electricals Ltd.	Solar collectors, Solar pumps, Solar water heaters Solar power generation, Solar space heating.
15	Central Electronics Ltd.	Solar Cells.
16	Electronic Corporation of India Ltd.	Solar Cells.
17	National Aeronautical Laboratories, Bangalore	Solar Pumps.
III	*Private Organisation and others*	
1	Jyoti Ltd., Baroda	Solar collectors, Solar Pumps.
2	Amul Dairies, Anand (Gujarat)	Milk drying.
3	Arvind Pandya, Ahmedabad	Solar cookers, ovens.
4	Fertiplant, Bombay	Solar water heaters.
5	Metal Box India Ltd., Bombay	Solar Pumps.
6	Binny & Co. Madras	Solar Water heaters.

IV. *Achievements during* 1975-76 *and* 1976-77 :—

1. Solar pumps have been developed by Birla Institute of Technology and Science, Pilani, National Physical Laboratory New Delhi, and Indian Institute of Technology, Bombay using different technologies and these are undergoing tests.

2. A space heating project for comfort heating for workmen on the shop floor during winter was established at Bharat Heavy Electricals Ltd., Hardwar factory using about 58 sq. m. (2000 sq. ft.) of solar collector area.

3. Solar driers have been developed at Annamalai University. A 10-tonne paddy drier has been installed at Panjab Agricultural University, Ludhiana by the National Industrial Development Corporation.

4. Solar water heaters have been developed by several institutions and some manufacturers have taken up manufacture of domestic water heaters.

Hydro-Electric Project on River Kirankeshi, Maharashtra

4109. SHRI S. H. NAIK:

SHRI SHANKARRAO MANE:

Will the Minister of ENERGY be pleased to state:

(a) Whether Government of India have taken any steps to undertake the work of hydro-electric project on river Kirankeshi, the project which has been already investigated long ago; and

(b) whether Government has proposed any other project to meet the shortfall of electricity in the State of Maharashtra like Kirankeshi Hydro-electric project?

THE MINISTER OF ENERGY (SHRI P. RAMACHANDRAN): (a) In their final order, the Krishna Water Disputes Tribunal have given an award that the State of Maharashtra shall not divert or permit diversion of any water out of the Krishna River Basin except for the Koyna Hydro-Electric Project and the Tata Hydel Works. In view of this award, consideration of the Kirankeshi Project (Hiranyakeshi Multipurpose Project) has been dropped.

(b) In addition to the Thermal projects which are under execution in Maharashtra, the following Hydro-electric Schemes are under construction:—

(i) Koyna Hydro-electric Project Stage-III (4 x 80 MW)—Unit IV—(3 Units already commissioned)

(ii) Koyna Dam (2 x 20 MW)

(iii) Pench-Hydro-electric Project (2 x 80 MW) (Joint Maharashtra—Madhya Pradesh)

T.V. Centre at Panhala District Kolhapur

4110. SHRI SHANKARRAO MANE: Will the Minister of INFORMATION AND BROADCASTING be pleased to state:

(a) whether a TV Centre at Panhala, District Kolhapur has been proposed by Government; and

(b) if so, the time by which the work is proposed to be started and completed?

THE MINISTER OF INFORMATION AND BROADCASTING (SHRI L. K. ADVANI): (a) No, Sir.

(b) Does not arise.