

**Scientists engaged in Petro-Research**

14. SHRI ANANTA PRASAD SETHI: Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

(a) the number of Indian scientists engaged in the field of petro-research at present in the country;

(b) the annual production of petroleum products at the time of Independence and at present;

(c) whether the demand for petro-production continues to grow at an appreciable rate and several sectors of the economy appear to be relying more on hydrocarbons consumption; and

(d) if so, the steps Government have taken in this regard so far as the question of prognostic hydrocarbon resource base is concerned?

THE MINISTER OF STATE OF THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI BRAHM DUTT): (a) This information is not maintained.

(b) The production of petroleum products in 1947-48 and 1988-89 was 0.23 mil-

lion tonnes and 46.42 million tonnes respectively.

(c) Yes, Sir.

(d) Intensive exploration efforts are undertaken to ensure additional accretion of oil and gas reserves and the 7th Plan target of additions of geological reserves of 956 million tonnes of oil and 497 billion cubic metres of gas are expected to be achieved as a result of these exploration efforts.

### **Non-Conventional Energy Projects in Jammu & Kashmir**

15. SHRIMOHD. AYUB KHAN (Udhampur): Will the Minister of ENERGY be pleased to state the details of the projects taken up by the Department of Non-Conventional Energy Sources in Jammu & Kashmir along with the estimated cost of each project?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): The Department of Non-Conventional Energy Sources has taken up various programmes in Jammu & Kashmir in the area of non-conventional energy sources under which systems and devices are installed. A statement showing the number of systems and devices installed/to be installed under various programmes of the Department and the Central allocation involved in relation to programme is given below.

### **STATEMENT**

<i>S.No.</i>	<i>Programme</i>	<i>Systems and devices installed to be installed</i>	<i>Approx. Central expenditure involved (Rs. in lakhs)</i>
1	2	3	4
1.	Community/Institutional Biogas Plants	4	6.05
2.	National Programme of Biogas Development		29.78

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<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
	Family size biogas plants	651	
	Target for 1989-90	200	
3.	National Programme of Improved Chulhas		81.70
	Improved Chulhas	76502	
	Target for 1989-90	40000	
4	Solar Photovoltaic Programme		5.17
	a) Pump	1	
	b) Community Lighting/TV	3	
	c) PV Powered TV Transmitters	8	
5.	Solar Thermal Energy Programme		41.63
	a) Solar Cookers	124	
	b) Water Heating Systems	31	
	c) Water Heating Systems (Domestic)	6	
	d) Solar Stills	60	
6.	Solar Passive Architecture		48.66
	a) Green Houses	5	
	b) Passive Houses	14	
	c) TAP Collectors	630	
7.	Wind Energy Programme		25.05
	a) Wind Pumps	3	
	b) Wind Electric Generator (10 KW)	3	
	c) Wind Battery Charges (300W)	2	

1	2	3	4
8.	Battery Powered Vehicles	10	12.85
9.	Biomass Energy Programme		39.00
	a) Sterling Engines	20	
	b) Gasifiers.	15	
		Total	289.89

**Promotion Policy for Ex-cadre Officers  
in Information and Broadcasting  
Ministry**

16. SHRI AMAL DATTA: Will the Minister of INFORMATION AND BROADCASTING be pleased to state the promotion policy for ex-cadre officers like Extension Officer, Farm Radio Officer and non-gazetted staff like Field Reporter, Farm Radio Reporters in

his Ministry?

THE MINISTER OF STATE IN THE MINISTRY OF INFORMATION AND BROADCASTING (SHRI K.K. TEWARY): The posts of Extension Officer, Farm Radio Officer and non-gazetted staff like Field Reporters and Farm Radio Reporters are not ex-cadre posts. A statement showing the promotional avenues for these posts is given below.